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[54] **ELECTRONIC DOCUMENT INTERCHANGE TEST FACILITY**

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[52] **U.S. Cl.** **395/575**; 364/226.4

[58] **Field of Search** 395/575; 364/408, 250, 364/225.8, 226.4

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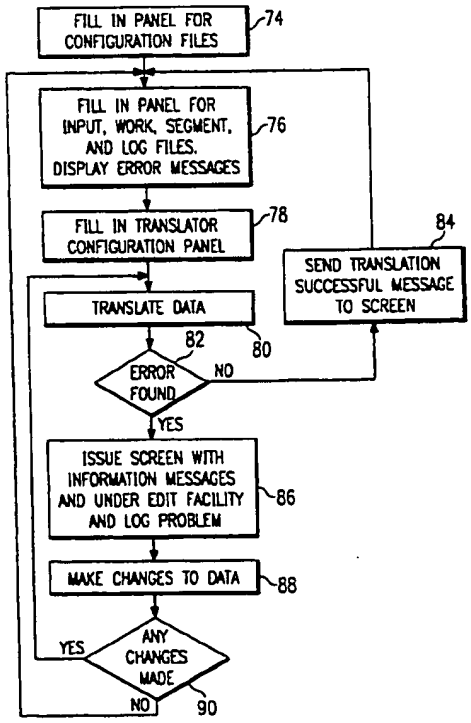
[57] **ABSTRACT**

A method and system for electronic data interchange (EDI) translation testing displays a plurality of operator-interactive panels for controlling pre-production translation of EDI document files. The EDI Test Facility integrates numerous translator programs to detect translation errors. Once an error is detected, the EDI test facility displays the translation error and permits an operator to interactively correct the segment of the EDI document file containing the error. Once the error is corrected, the EDI Test Facility permits retranslation of the segment. When correctly translated, the segment is added to all previously corrected segments of the EDI document file in a working file. The method and system continue until stopped by the operator or EDI document file translation is complete.

7 Claims, 4 Drawing Sheets



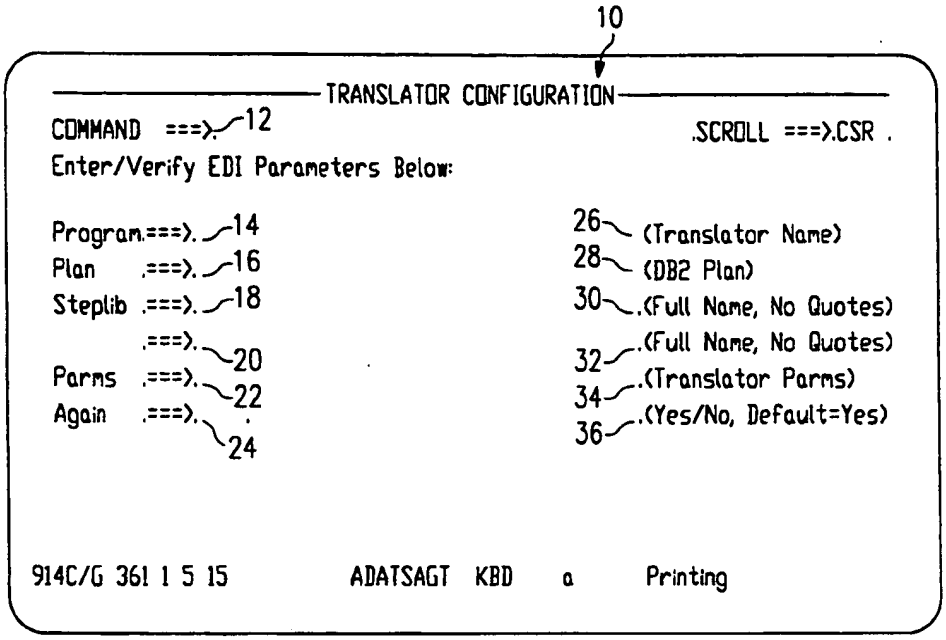

10
TRANSLATOR CONFIGURATION
COMMAND ===>. 12
.SCROLL ===>.CSR .
Enter/Verify EDI Parameters Below:
Program.===>. 14
Plan .===>. 16
Steplib .===>. 18
.===>. 20
Parms .===>. 22
Again .===>. 24
26 (Translator Name)
28 (DB2 Plan)
30 .(Full Name, No Quotes)
32 .(Full Name, No Quotes)
34 .(Translator Parms)
36 .(Yes/No, Default=Yes)
914C/G 361 1 5 15 ADATSAGT KBD a Printing

FIG. 1

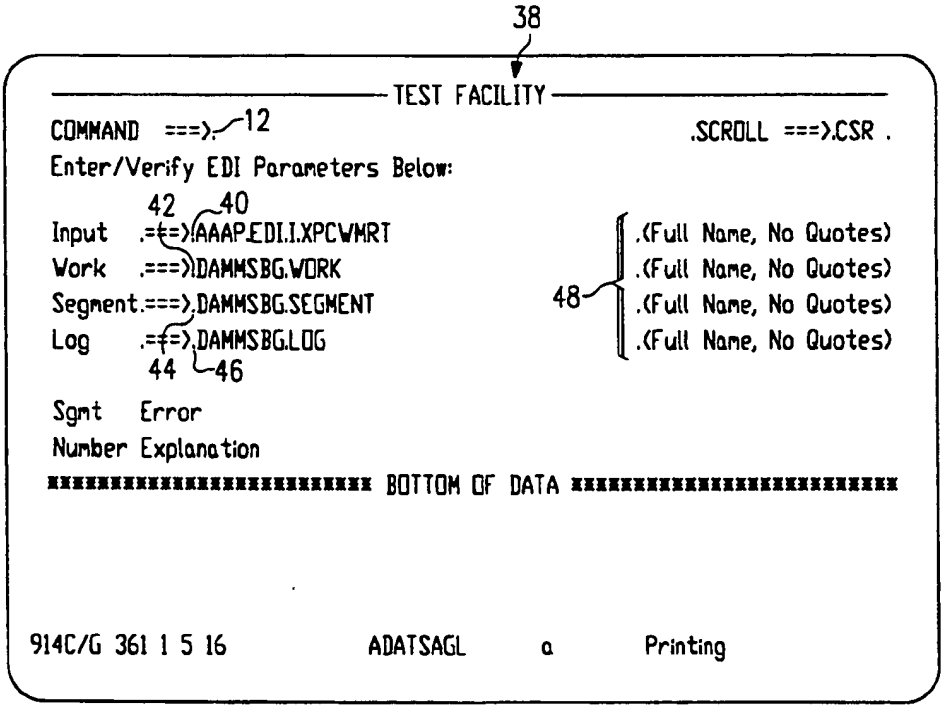

38
TEST FACILITY
COMMAND ===>. 12
.SCROLL ===>.CSR .
Enter/Verify EDI Parameters Below:
42 40
Input .===>.AAAP.EDI.I.XPCWMRT
Work .===>.DAMMSBG.WORK
Segment.===>.DAMMSBG.SEGMENT
Log .===>.DAMMSBG.LOG
44 46
48
.(Full Name, No Quotes)
.(Full Name, No Quotes)
.(Full Name, No Quotes)
.(Full Name, No Quotes)
Sgmt Error
Number Explanation
BOTTOM OF DATA
914C/G 361 1 5 16 ADATSAGL a Printing

FIG. 2

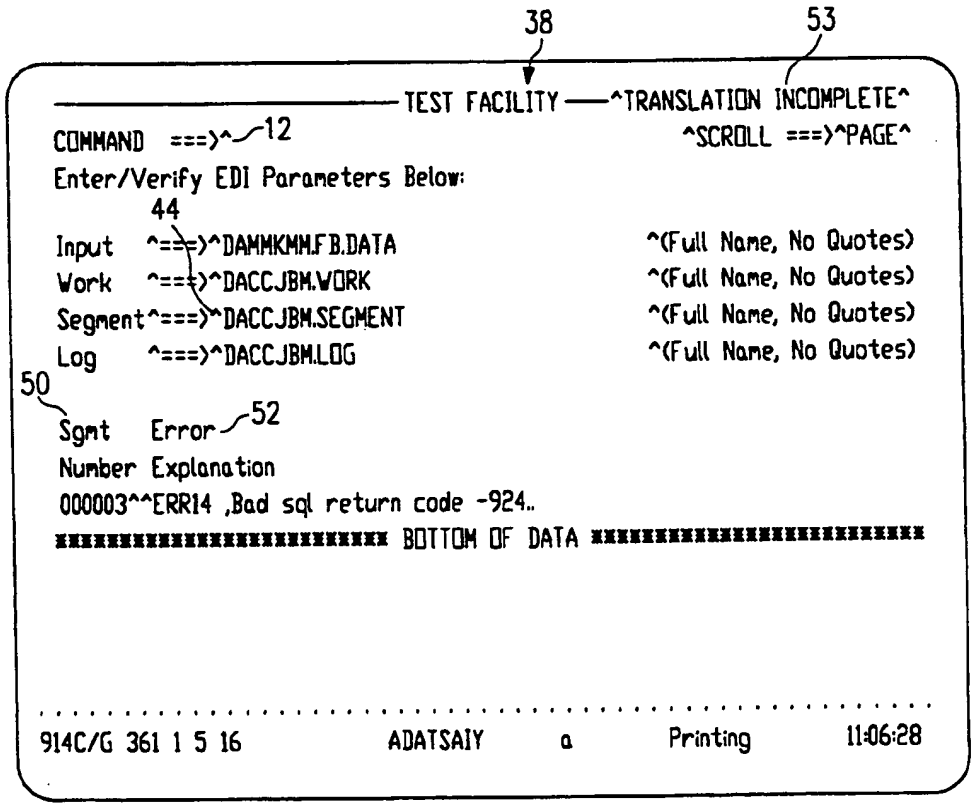

38
53
TEST FACILITY
^TRANSLATION INCOMPLETE^
COMMAND ===>^
12
^SCROLL ===>^PAGE^
Enter/Verify EDI Parameters Below:
44
Input ^===>^DAMMKMM.FB.DATA
^(Full Name, No Quotes)
Work ^===>^DACCJBM.WORK
^(Full Name, No Quotes)
Segment^===>^DACCJBM.SEGMENT
^(Full Name, No Quotes)
Log ^===>^DACCJBM.LOG
^(Full Name, No Quotes)
50
Sgmt Error
52
Number Explanation
000003^^ERR14 ,Bad sql return code -924..
BOTTOM OF DATA
914C/G 361 1 5 16
ADATSAIY
a
Printing
11:06:28

FIG. 3

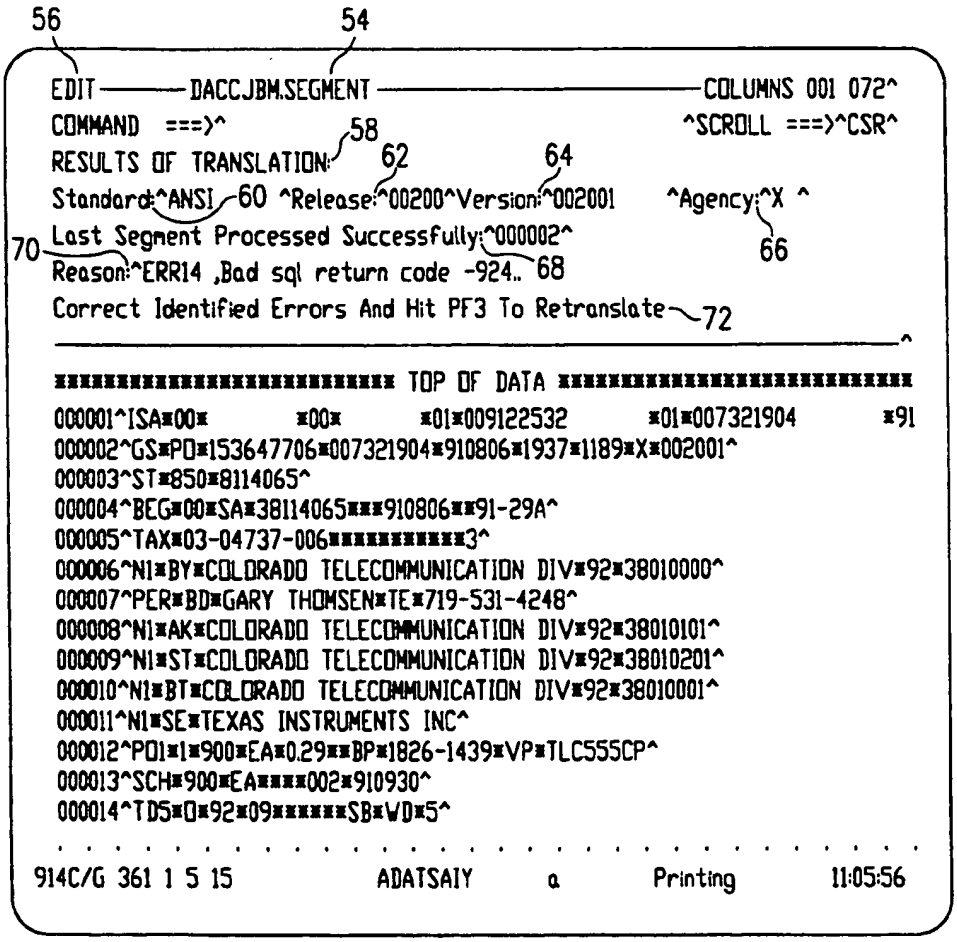

56
54
EDIT ——— DACCJBM.SEGMENT ——— COLUMNS 001 072^
COMMAND ===>^
58
^SCROLL ===>^CSR^
RESULTS OF TRANSLATION:
62
64
Standard:^ANSI 60 ^Release:^00200^Version:^002001 ^Agency:^X ^
Last Segment Processed Successfully:^000002^
66
70
Reason:^ERR14 ,Bad sql return code -924..
68
Correct Identified Errors And Hit PF3 To Retranslate
72
TOP OF DATA
000001^ISA*00* *00* *01*009122532 *01*007321904 *91
000002^GS*PO*153647706*007321904*910806*1937*1189*X*002001^
000003^ST*850*8114065^
000004^BEG*00*SA*38114065***910806**91-29A^
000005^TAX*03-04737-006**********3^
000006^N1*BY*COLORADO TELECOMMUNICATION DIV*92*38010000^
000007^PER*BD*GARY THOMSEN*TE*719-531-4248^
000008^N1*AK*COLORADO TELECOMMUNICATION DIV*92*38010101^
000009^N1*ST*COLORADO TELECOMMUNICATION DIV*92*38010201^
000010^N1*BT*COLORADO TELECOMMUNICATION DIV*92*38010001^
000011^N1*SE*TEXAS INSTRUMENTS INC^
000012^PO1*1*900*EA*0.29**BP*1826-1439*VP*TLC555CP^
000013^SCH*900*EA****002*910930^
000014^TDS*0*92*09******SB*WD*5^
914C/G 361 1 5 15 ADATSAIY a Printing 11:05:56

FIG. 4

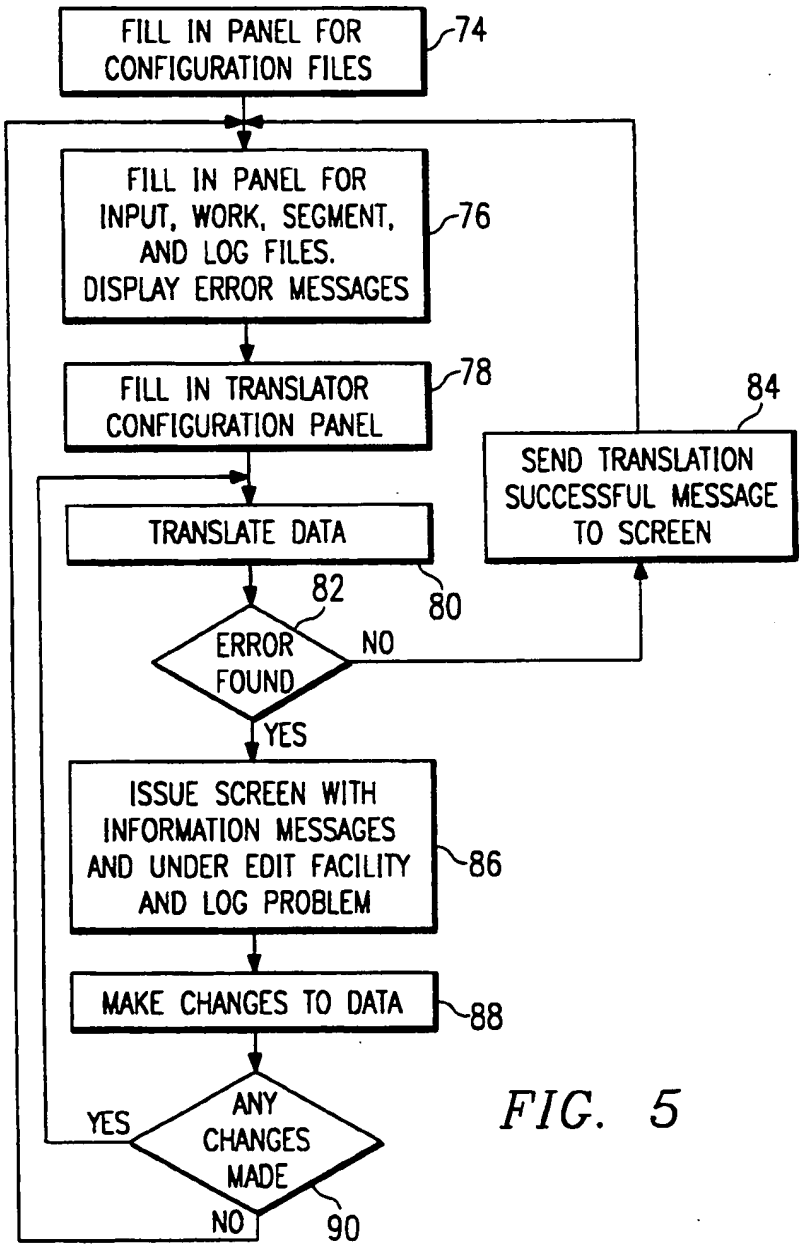

FILL IN PANEL FOR CONFIGURATION FILES
74
FILL IN PANEL FOR INPUT, WORK, SEGMENT, AND LOG FILES. DISPLAY ERROR MESSAGES
76
FILL IN TRANSLATOR CONFIGURATION PANEL
78
84
SEND TRANSLATION SUCCESSFUL MESSAGE TO SCREEN
TRANSLATE DATA
80
82
ERROR FOUND
NO
YES
ISSUE SCREEN WITH INFORMATION MESSAGES AND UNDER EDIT FACILITY AND LOG PROBLEM
86
MAKE CHANGES TO DATA
88
ANY CHANGES MADE
YES
NO
90

FIG. 5

ELECTRONIC DOCUMENT INTERCHANGE TEST FACILITY

TECHNICAL FIELD OF THE INVENTION

The present invention relates to the methods and systems for testing the transmission of data and more particularly, to a method for testing the transmission of electronic data interchange (EDI) documents files.

BACKGROUND OF THE INVENTION

In recent years many companies, in trading with other companies, for the transmission and receipt or interchange of business information have come to use computerized systems known as electronic data interchange or EDI systems. EDI systems enjoy the particular advantage of having an established set of standards applicable to various types of business documents. For example, in an EDI system, an invoice has a defined format and, as a result, may be rapidly transmitted between trading partners as a compact data file from the sending trading partner's computer to the receiving trading partner's computer. To create the compact data files, an EDI operator must first translate the EDI documents. The EDI document files are compact data files that the receiving trading partner receives. These compact data files are translated back into documents by the receiving trading partner.

Applications for EDI methods and systems include business activities such as purchasing, accounts payable and accounts receivable functions, banking transactions, electronic funds transfer and other document transfers. Other EDI system applications include order filling and processing between trading partners. Not only is this helpful in buying and selling goods, but also trading partners that are transportation companies may use this information to maximize the efficiency of the transportation services they provide. By using EDI systems, a trucking company, for example, may easily keep track of the origin and destination of all of its shipments throughout its service region.

The format standards for EDI documents are generally loosely written so that they can satisfy a wide variety of user needs. Thus, for example, while an EDI invoice format may have well-defined data fields, several aspects of the EDI invoice are variable. As a result, trading partners who agree to use an EDI system may agree to the format of communication between them prior to conducting a business transaction, and thereafter communication between the trading partners has the potential to occur on an almost immediate basis.

Although EDI systems represent a significant improvement in business communications between trading partners, known EDI systems stand in need of improvement in document translation efficiency. A particular problem in the translation of EDI documents is the need to assure that the documents, as they are generated from various points within a trading partner, satisfy the EDI document format EDI requirements. This is particularly important in cases where failure to satisfy applicable EDI document format requirements causes the translation to be either significantly incorrect or fully prohibited. It is, therefore, important that the sending trading partner ascertain that all documents satisfy the information and format requirements of the receiving trading partner before the trading partner sends them.

Known methods of testing EDI document translations require that when a receiving trading partner encounters a transmission error, the sending partner must identify and correct the error and, then, resend a corrected test EDI document file. This process often requires numerous iterations and creates time lapses which strain productivity. Correcting translation errors using a conventional EDI editing system has not proven practical, because any adjustment in the data link of EDI transmission requires that every character following the modification be adjusted. This results in a significant amount of tedious effort between both trading partners. This type of batch processing by the recipient is further limited, because only upon the detection of an error by the recipient can action be taken to correct the problem. Once this problem is corrected, it is necessary to completely rerun the file which may be halted again as a result of yet another error later in the EDI document file translation.

As a result, in order for EDI document transmissions to reach their full potential efficiency and speed there is a need for as a method and system for rapidly increasing the data translation rate between trading partners, it is necessary to have a rapid EDI translation test facility that does not strain the productivity of the receiving trading partner.

There is a need for a method and system that eliminates the batch processing necessary to identify errors in EDI translations.

There is yet the need for a method and system that permits EDI system operators to identify and correct EDI transmission errors without the need to begin again the EDI document file translation process.

SUMMARY OF THE INVENTION

The present invention, accordingly, provides an electronic data interchange testing method and system that overcomes the problems and satisfies the needs previously considered.

According to one aspect of the invention, there is provided a method for pre-production translation testing of EDI document files that comprises the steps of generating a plurality of control displays for controlling the pre-production translation of the EDI document file. Next, translation of the file takes place until a translation error arises. The method of the present invention is to display the translation error on one of the control displays so that the error may be corrected using an input to the control display. The next step is to correct the displayed translation error as indicated by the control display. This process of translating the file until a translation error arises, displaying the translation error for correction, and correcting the translation error continues until the EDI file is fully translated.

According to another aspect of the invention, there is provided within one of the control displays a plurality of initial queries for inputting initialization data pertaining to the EDI document file. The queries relate to the particular translation configuration for translating the data into a particular application program that has the ability to use the EDI document file. Moreover, a particularly attractive aspect of the invention is its ability

to produce textual segment files for containing in textual form predetermined segments of the EDI file and permitting an operator to edit the textual segment file in response to the indicated translation error. Once all errors have been noted and a translation of the relevant section is complete, the segment is stored in a working file. The working file contains all of the previously corrected segments. Through this segmented approach, the working file becomes a corrected copy of the original EDI document file. Hence, upon the complete translation of the original EDI document file, the operator has the original EDI document file and a working EDI document file that was created by the segmentation process.

A technical advantage of the present invention is that it permits EDI systems to realize their intended benefits by eliminating redundant data flows that occur in known systems when EDI document files have translation errors. The EDI test facility of the present invention provides the receiving trading partner the ability to perform pre-production translation testing of EDI document files just prior to their translation. As a result, the EDI document file is fully translated and any errors incurred during this process are logged and can be made available to the sending trading partner as advised corrections; thus minimizing unproductive time lapses and iterative communication cycles between trading partners.

Another advantage of the present invention is that it fully avoids the batch processing that was heretofore necessary in the detecting EDI transmission file errors. Using the method and system of the present invention, a trading partner may employ the EDI test facility to correct interactively EDI document file transmission errors. This allows the trading partner to perform a single EDI document file translation and therefrom produce an error-free translated EDI document file. Because only one translation operation is necessary to produce the error-free EDI document file, the present invention eliminates much of the tedious work and productivity strain presently existing in EDI document file translation.

Yet another advantage of the present invention is that it permits the integration of numerous EDI application programs for error correction and translation. The integration that the present invention provides is functionally transparent to the operator and permits EDI document file translation with any type of translator. The solution that the preferred embodiment provides permits changing the test process from one in which a number of inadequate or unrelated tools are used for EDI translation to a process where an integrated and easy to use tool kit exists to aid the EDI translation operator. As a result, the interactive testing that the preferred embodiment provides significantly reduces transmission testing cycle time. This reduces software development costs and improves overall productivity in EDI document file applications among trading partners.

BRIEF DESCRIPTION OF THE DRAWINGS

The invention and its modes of use and advantages are best understood by reference to the following description of illustrative embodiments when read in conjunction with the accompanying drawings, wherein:

FIG. 1 through 4 are various translation screens usable in a association with the preferred embodiment;

FIG. 5 is a flow chart illustrating the operation of the EDI test facility of the preferred embodiment; and

APPENDIX A provides a listing of the software code that the preferred embodiment of the present invention implements for EDI document file translation testing.

DETAILED DESCRIPTION OF THE INVENTION

The preferred embodiment of the present invention is best understood by referring to the FIGUREs wherein like numerals are used for like and corresponding parts of the various drawings.

The EDI test facility of the preferred embodiment integrates within the EDI system environment an operator interactive translation test facility that is accessible through a computer time share option link. In this environment, the EDI test facility of the preferred embodiment has numerous test configuration options. The EDI test facility of the preferred embodiment integrates its operation with the principal communication path among EDI partners for EDI transmissions known as the EDI system gateway. This permits an EDI system operator to locate and select an EDI transmission file for immediate translation testing. Once translation testing has commenced, error situations are brought to the operator's attention along with recommendations for correcting the error. The operator has the option to fix the error and continue testing until the translator detects another translation error. As translation testing continues, the test results are saved into a working file. The working file may be tested to verify a successful translation. Additionally, the preferred embodiment generates a log file to provide the operator with a listing of errors encountered during translation testing.

The EDI test facility may be used on any computer equipped to perform EDI translations and may operate in conjunction with any commercially available EDI translator software package. Examples of translator packages usable with the preferred embodiment include the following: transettlements, interbridge and proprietary translators.

To use the EDI test facility of the preferred embodiment, the operator may enter a time sharing option and receive an EDI document file on which to perform testing. To perform the operation, the EDI test facility of the preferred embodiment presents the operator with a set of operator friendly panels. FIGS. 1–4 illustrate the panels or screens that the operator sees in testing EDI document file for translation errors. In particular, FIG. 1 illustrates the "Translator Configuration Screen" that the preferred embodiment provides to the EDI translation test operator. The Translator Configuration Screen of FIG. 1, as indicated by Translator Configuration label 10, permits the operator to input a Command for EDI translation at point 12 of the screen, the EDI translator program that the operator will use at point 14, the EDI translation plan at point 16, the EDI Steplib, at points 18 and 20, EDI parms at point 22, and at point 24 the ability to respond to a query of whether a translation identified at points 14–22 as being translated again.

The EDI Steplib input defines a library associated with the test facility wherein the translator program resides, and the EDI parms input receives the parameters that the operator desires to pass to the translator program. The operator may provide these Translator Configuration Screen inputs to the EDI test facility of the preferred embodiment using a key board or other computer input device.

Associated with each of the inputs of points 14–24 are respective parameter descriptors. In particular, for the Program input point 14, the preferred embodiment indicates at point 26 that the proper response to the program input 14 is the "Translator Name." For the EDI plan input 16, the "DB2 Plan" parameter descriptor 28 means that for this particular translator, the DB2 plan is used. For Steplib inputs 28 and 20, descriptors 30 and 32 specify that the "Full Name" of the Steplib is necessary and that no quotes may be used. Parms input 22 must be Translated Parms, as descriptor 34 indicates. The appropriate response for the "Again" input 24 is "yes" or "no" with a default to "yes" as indicated by descriptor 36.

Once the operator establishes the translator configuration by appropriately responding to the Translator Configuration Screen of FIG. 1, the operator indicates the completion of this step by hitting the enter key. Test Facility Screen of FIG. 2 appears. Immediately thereafter, identifies Test Facility label 38 the Test Facility Screen. With this screen, the operator may input a command at point 12 and set up particular files necessary to perform the EDI document file transmission testing. For example, in the preferred embodiment, the operator provides to the EDI Test Facility the input file at point 40. In this example, the input file has the name, ".AAA.EDI.I.EXPCWMRT." The operator defines a work file at point 42 (e.g., ".DAMMSBG.WORK"), a segment file at point 44 (e.g., ".DAMMSBG.SEGMENT"), and a log file (e.g., "DAMMSBG.LOG") at point 46. The Test Facility Screen also assists the operator by describing the types of fields necessary at points 40–46 by the input descriptors 48 which appear as ".(Full Name, No Quotes)."

In response to this information and a subsequent command to conduct testing that the operator inputs at point 12, the Test Facility Screen can display the existence of a translation error. FIG. 3 shows the Test Facility screen that appears during translation testing. FIG. 3 shows outputs at Segment Number designator 50 and Error Explanation output 52 to provide indication of errors. In the example, the segment number where an error exists is segment number "000003" having an associated error code of "EER14" and an explanation of "Bad Sql Return Code - 924." This means that at segment number 000003 there was a DB2 problem in the EDI document file translation. With this error identifying information, the operator may insert an "Edit" command into the Command input point 12 of the Test Facility Screen to see the Edit Screen that appears at FIG. 4.

The preferred embodiment of the present invention, upon identifying the translation error, places a segment of the original input file that contains the translation error into a segment file. The segment file, in the example of the preferred embodiment, is identified at point 44 of the Test Facility Screens of FIGS. 2 and 3 and the Edit Screen designator 54. The Edit Screen designator 54 shows that the segment file name is "DACCJBM-.SEGMENT." The Edit Label 56 indicates to the operator that the operator is viewing the Edit Screen.

In the Edit Screen, as in the Translator Configuration Screen of FIG. 1 and the Test Facility Screen of FIGS. 2 and 3, command input 12 permits the operator to provide a command input. Other outputs of the Edit Screen include descriptive output of the results of the translation at output point 58, the Standard for translation at point 60 (e.g., "ANSI") the Release descriptor at output point 62, (e.g., "00200"),-the applicable Version at output point 64 (e.g., "002001"), and the particular Agency for output at point 66 (e.g., "X"). Because of the "Last Segment Process Successfully" output point 68, the operator at all times knows the last segment that was successfully processed. At the "Reason" output point 70, the operator receives the same information that previously appeared at Error Explanation output 52 of the Test Facility Screen shown in FIG. 3. This provides as the reason why the translation error occurred. Finally, the operator is prompted to "Correct Identified Errors And Hit PF3 to retranslate the corrected segment (e.g., segment 3 in this example).

The bottom part of the operator screen appearing at FIG. 4 shows the portion of the original EDI document file that the segment file contains. With this small segment, the operator may identify the error that the Test Facility Search lists and correct it. After which, the operator may depress the PF3 key of his keyboard to retranslate the segment and thereby verify that the error has been corrected.

In using the EDI Test Facility of the preferred embodiment, at each segment that the test facility identifies, the Test Facility output of FIG. 3 and the Edit Screen output of FIG. 4 communicate to the operator the existence of an error and the error location, as well as provide to the operator the ability to correct the error interactively. Once the error is corrected, the operator retranslates the corrected segment and the EDI Test Facility of the preferred embodiment continues to translate the EDI document file (e.g., DAMMKMM.FB.DATA of FIG. 3) until the translation is complete.

The Translation Incomplete signal 53 of FIG. 3 indicates that the translation of input file DAMMKMM.FBDATA is not completed because of the error identified by segment number output 50 and error explanation output 52 (i.e., "ERR14, Badsql Return Code - 924 at segment 000003).

FIG. 5 shows a flow chart of the preferred EDI Test Facility embodiment to provide to the operator the screens appearing in FIG. 1–4. First the operator fills in the Transfer Configuration Screen to establish the configuration files of step 74. Next, the operator fills in the test facility panel for input, work, segment, and log files at step 76. Also at step 76, using the Test Facility screens of FIGS. 2 and 3 the EDI Test Facility of the preferred embodiment displays any error messages arising from the EDI translation. Next, the EDI Test Facility of the preferred embodiment at step 78 permits the operator to fill in the translator configuration of FIG. 1. The preferred embodiment then translates the data at step 80 and queries whether an error has been found in the EDI file translation at step 82.

If no error occurs, the preferred embodiment sends a translation successful message to the Test Facility screen at step 84 and then permits the operator to change the input work segment and log files and continue at steps 76 and the Translator Configuration of step 78. On the other hand, if an error is found at step 82, EDI test facility of the preferred embodiment at step 86, issues the information to the Test Facility Screen (see FIG. 3) and provides the operator with the ability to use the Edit Facility of the preferred embodiment. At step 86, the preferred embodiment also logs the problem in the previously designated log file (see FIG. 3).

Under the edit facility, the EDI Test Facility permits the operator to make changes to the data at step 88 and

query whether any changes were made at step 90. If no changes were made, control returns to step 76 where the operator is to fill in the input, work, segment, and log file as well as to display the error message arising from the failed translation. On the other hand, if changes are made then the program control returns to step 80 to translate data and determine whether any further error exists.

Appendix A provides a complete listing of the source code for the EDI Test Facility of the preferred embodiment.

Although the present invention and its advantages have been described in detail, it should be understood that various changes, substitutions and alterations can be made herein without departing from the spirit and scope the invention as defined in the appended claims.

APPENDIX A

```
         TITLE 'EDITSBED - EDI TEST FACILITY'                                00010000
         SPACE 2                                                             00020000
*************************************************************************  00030000
*-----------------------------------------------------------------------*  00040000
*                 -----     N O T I C E     -----                       *  00050000
*       THIS EDI TEST FACILITY SOURCE MODULE                              *  00060000
*                    IS TI CLASSIFIED:                                    *  00070000
* T E X A S  I N S T R U M E N T S  I N T E R N A L  D A T A             *  00080000
*   P R O P E R T Y  O F  T E X A S  I N S T R U M E N T S               *  00090000
*                          O N L Y                                      *  00100000
*                   TEXAS INSTRUMENTS, INC.                             *  00110000
*   13500 N. CENTRAL EXPRESSWAY, DALLAS, TEXAS   75265                  *  00120000
*-----------------------------------------------------------------------*  00130000
*************************************************************************  00140000
         SPACE 2                                                             00150000
         REGS                                                                00160000
         SPACE 2                                                             00170000
         IHASDWA                                                             00180000
         SPACE 2                                                             00190000
         EDIDEQU                                                             00200000
         SPACE 2                                                             00210000
         CVT   DSECT=YES                                                     00220000
         TICVT                                                               00230000
         SPACE 2                                                             00240000
         IFGACB                                                              00250000
         SPACE 2                                                             00260000
         IFGRPL                                                              00270000
         SPACE 2                                                             00280000
         IEFZB4D0                                                            00290000
         SPACE 2                                                             00300000
         IEFZB4D2                                                            00310000
         SPACE 2                                                             00320000
         DCBD  DSORG=BS,DEVD=DA                                              00330000
         SPACE 2                                                             00340000
DCBPARMS DSECT                                                               00350000
DCBXDDNM DS    CL8                                                           00360000
DCBXRFMT DS    X                                                             00370000
DCBXLREC DS    XL2                                                           00380000
DCBXBLKS DS    XL2                                                           00390000
DCBXPRIM DS    XL3                                                           00400000
DCBXNEW  EQU   DCBPARMS,*-DCBPARMS,C'X'                                      00410000
TRANREC  DSECT                                                               00420000
TRANSTND DS    CL8                                                           00430000
TRANRLSE DS    CL5                                                           00440000
TRANVERS DS    CL12                                                          00450000
TRANAGCY DS    CL2                                                           00460000
TRANSDLM DS    CL1                                                           00470000
TRANREAS DS    CL71                                                          00480000
TRANBIF  DS    CL10                                                          00490000
TRANWELM DS    CL8                                                           00500000
TRANLAST DS    CL6                                                           00510000
TRANTAG  DS    CL20                                                          00520000
TRANVAL  DS    CL40                                                          00530000
TRANSTOR EQU   TRANTAG,*-TRANTAG,C'C'                                       00540000
EDITSBED CSECT                                                               00550000
         USING EDITSBED,R10          NOTE BASE ADDRESSIBILITY               00560000
         STM   R14,R12,12(R13)       SAVE ENTRY REGS                        00570000
         LR    R10,R15               COPY ENTRY ADDRESS                     00580000
         LA    R11,2048(,R10)        INITIALIZE 2ND BASE REG                00590000
         LA    R11,2048(,R11)                                               00600000
         USING EDITSBED+4096,R11                                            00610000
         LA    R1,SAVEAREA           POINT TO SAVE AREA                     00620000
         ST    R13,4(,R1)            LINK TO CALLERS SAVE AREA              00630000
         ST    R1,8(,R13)            LINK TO OUR SAVE AREA                  00640000
         LR    R13,R1                ESTABLISH SAVE AREA                    00650000
         SPACE 1                                                            00660000
*-----------------------------------------------------------------------*  00670000
*        SET UP AN ESTAE EXIT                                           *  00680000
*-----------------------------------------------------------------------*  00690000
         SPACE 1                                                            00700000
         ESTAE TBABEND,              ESTABLISH AN ESTAE                   +00710000
               PARAM=(R10),                                               +00720000
               XCTL=YES                                                     00730000
         SPACE 1                                                            00740000
*-----------------------------------------------------------------------*  00750000
*        INITIALIZE                                                     *  00760000
```

```
*-------------------------------------------------------------------* 00770000
         SPACE 1                                                    00780000
         OI    FLAG1,INIT          SET INITIALIZING                 00790000
         USING IHADCB,R12                                           00800000
         SPACE 1                                                    00810000
         LOAD  EP=ISPLINK          LOAD LINK PROGRAM                00820000
         SPACE 1                                                    00830000
         ST    R0,ISPLADDR         SAVE ADDRESS                     00840000
         SPACE 1                                                    00850000
*-------------------------------------------------------------------* 00860000
*        DEFINE PROCESSSING OPTIONS FOR DIALOGUE SERVICE            * 00870000
*-------------------------------------------------------------------* 00880000
         SPACE 1                                                    00890000
         L     R15,ISPLADDR        LOAD ADDRESS OF ISPLINK ROUTINE  00900000
         CALL  (15),(CONTROL,ERRORS,RETURN),VL                      00910000
         SPACE 1                                                    00920000
*-------------------------------------------------------------------* 00930000
*        DEFINE MISC. VARIABLE NAMES TO ISPF                        * 00940000
*-------------------------------------------------------------------* 00950000
         SPACE 1                                                    00960000
         L     R15,ISPLADDR        LOAD ADDRESS OF ISPLINK ROUTINE  00970000
         CALL  (15),(VDEFINE,ZUSERLIT,ZUSER,CHAR,LENGTH8),VL        00980000
         SPACE 1                                                    00990000
         L     R15,ISPLADDR        LOAD ADDRESS OF ISPLINK ROUTINE  01000000
         CALL  (15),(VDEFINE,DSNLIT,DSN,CHAR,LENGTH44),VL           01010000
         SPACE 1                                                    01020000
         L     R15,ISPLADDR        LOAD ADDRESS OF ISPLINK ROUTINE  01030000
         CALL  (15),(VDEFINE,DSNWLIT,DSNW,CHAR,LENGTH44),VL         01040000
         SPACE 1                                                    01050000
         L     R15,ISPLADDR        LOAD ADDRESS OF ISPLINK ROUTINE  01060000
         CALL  (15),(VDEFINE,DSNALITT,DSNAT,CHAR,LENGTH44),VL       01070000
         SPACE 1                                                    01080000
         L     R15,ISPLADDR        LOAD ADDRESS OF ISPLINK ROUTINE  01090000
         CALL  (15),(VDEFINE,DSNALITP,DSNAP,CHAR,LENGTH44),VL       01100000
         SPACE 1                                                    01110000
         L     R15,ISPLADDR        LOAD ADDRESS OF ISPLINK ROUTINE  01120000
         CALL  (15),(VDEFINE,DSNCLITT,DSNCT,CHAR,LENGTH44),VL       01130000
         SPACE 1                                                    01140000
         L     R15,ISPLADDR        LOAD ADDRESS OF ISPLINK ROUTINE  01150000
         CALL  (15),(VDEFINE,DSNCLITP,DSNCP,CHAR,LENGTH44),VL       01160000
         SPACE 1                                                    01170000
         L     R15,ISPLADDR        LOAD ADDRESS OF ISPLINK ROUTINE  01180000
         CALL  (15),(VDEFINE,DSNILITT,DSNIT,CHAR,LENGTH44),VL       01190000
         SPACE 1                                                    01200000
         L     R15,ISPLADDR        LOAD ADDRESS OF ISPLINK ROUTINE  01210000
         CALL  (15),(VDEFINE,DSNILITP,DSNIP,CHAR,LENGTH44),VL       01220000
         SPACE 1                                                    01230000
         L     R15,ISPLADDR        LOAD ADDRESS OF ISPLINK ROUTINE  01240000
         CALL  (15),(VDEFINE,DSNXLITT,DSNXT,CHAR,LENGTH44),VL       01250000
         SPACE 1                                                    01260000
         L     R15,ISPLADDR        LOAD ADDRESS OF ISPLINK ROUTINE  01270000
         CALL  (15),(VDEFINE,DSNXLITP,DSNXP,CHAR,LENGTH44),VL       01280000
         SPACE 1                                                    01290000
         L     R15,ISPLADDR        LOAD ADDRESS OF ISPLINK ROUTINE  01300000
         CALL  (15),(VDEFINE,DSNOLITT,DSNOT,CHAR,LENGTH44),VL       01310000
         SPACE 1                                                    01320000
         L     R15,ISPLADDR        LOAD ADDRESS OF ISPLINK ROUTINE  01330000
         CALL  (15),(VDEFINE,DSNOLITP,DSNOP,CHAR,LENGTH44),VL       01340000
         SPACE 1                                                    01350000
         L     R15,ISPLADDR        LOAD ADDRESS OF ISPLINK ROUTINE  01360000
         CALL  (15),(VDEFINE,DSNSLIT,DSNS,CHAR,LENGTH44),VL         01370000
         SPACE 1                                                    01380000
         L     R15,ISPLADDR        LOAD ADDRESS OF ISPLINK ROUTINE  01390000
         CALL  (15),(VDEFINE,DSNLLIT,DSNL,CHAR,LENGTH44),VL         01400000
         SPACE 1                                                    01410000
         L     R15,ISPLADDR        LOAD ADDRESS OF ISPLINK ROUTINE  01420000
         CALL  (15),(VDEFINE,STDLIT,STD,CHAR,LENGTH8),VL            01430000
         SPACE 1                                                    01440000
         L     R15,ISPLADDR        LOAD ADDRESS OF ISPLINK ROUTINE  01450000
         CALL  (15),(VDEFINE,RLSLIT,RLS,CHAR,LENGTH5),VL            01460000
         SPACE 1                                                    01470000
         L     R15,ISPLADDR        LOAD ADDRESS OF ISPLINK ROUTINE  01480000
         CALL  (15),(VDEFINE,VERSLIT,VERS,CHAR,LENGTH12),VL         01490000
         SPACE 1                                                    01500000
         L     R15,ISPLADDR        LOAD ADDRESS OF ISPLINK ROUTINE  01510000
         CALL  (15),(VDEFINE,AGCYLIT,AGCY,CHAR,LENGTH2),VL          01520000
         SPACE 1                                                    01530000
         L     R15,ISPLADDR        LOAD ADDRESS OF ISPLINK ROUTINE  01540000
         CALL  (15),(VDEFINE,REASLIT,REAS,CHAR,LENGTH71),VL         01550000
         SPACE 1                                                    01560000
         L     R15,ISPLADDR        LOAD ADDRESS OF ISPLINK ROUTINE  01570000
         CALL  (15),(VDEFINE,NUMBLIT,NUMB,CHAR,LENGTH6),VL          01580000
         SPACE 1                                                    01590000
         L     R15,ISPLADDR        LOAD ADDRESS OF ISPLINK ROUTINE  01600000
         CALL  (15),(VDEFINE,LASTLIT,LASTSEG,CHAR,LENGTH6),VL       01610000
         SPACE 1                                                    01620000
         L     R15,ISPLADDR        LOAD ADDRESS OF ISPLINK ROUTINE  01630000
         CALL  (15),(VDEFINE,RTC,RTNCODE,HEX,LENGTH4),VL            01640000
         SPACE 1                                                    01650000
         L     R15,ISPLADDR        LOAD ADDRESS OF ISPLINK ROUTINE  01660000
         CALL  (15),(VDEFINE,REEZ,REEZCODE,HEX,LENGTH2),VL          01670000
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         SPACE 1                                                        01680000
         L     R15,ISPLADDR        LOAD ADDRESS OF ISPLINK ROUTINE      01690000
         CALL  (15),(VDEFINE,DD,DDERR,CHAR,LENGTH8),VL                  01700000
         SPACE 1                                                        01710000
*--------------------------------------------------------------------*  01720000
*        CREATE TABLE NEEDED FOR FIRST PANEL                         *  01730000
*--------------------------------------------------------------------*  01740000
         SPACE 1                                                        01750000
         L     R15,ISPLADDR        LOAD ADDRESS OF ISPLINK ROUTINE      01760000
         CALL  (15),(TBCREATE,VARTABLE,,VARLIST,NOWRITE),VL             01770000
         SPACE 1                                                        01780000
         LTR   R15,R15             ERROR?                               01790000
         BNZ   ERROR01             YES-                                 01800000
         SPACE 1                                                        01810000
*--------------------------------------------------------------------*  01820000
*        RETRIEVE TSO USERID                                         *  01830000
*--------------------------------------------------------------------*  01840000
         SPACE 1                                                        01850000
         L     R15,ISPLADDR        LOAD ADDRESS OF ISPLINK ROUTINE      01860000
         CALL  (15),(VGET,USERLIST,SHARED),VL                           01870000
         SPACE 1                                                        01880000
*--------------------------------------------------------------------*  01890000
*        ALLOCATE DISP=SHR DATASETS NEEDED BY TRANSLATOR             *  01900000
*--------------------------------------------------------------------*  01910000
         SPACE 1                                                        01920000
         MVI   DYNRB+S99VERB-S99RB,S99VRBAL SET TO ALLOCATE             01930000
         LA    R2,DSLISTS          POINT TO DATASET LIST                01940000
         USING DCBPARMS,R2         GET ADDRESSABILITY                   01950000
DSLISTSX DS    0H                                                       01960000
         LA    R1,DSALLOCS         POINT TO TEXT UNIT LIST              01970000
         ST    R1,DYNRB+S99TXTPP-S99RB STORE ADDRESS IN REQUEST BLK     01980000
         CLI   0(R2),C' '          END OF LIST?                         01990000
         BE    ALLOCOLD            YES-                                 02000000
         MVC   TXTDD+S99TUPAR-S99TUNIT(8),DCBXDDNM SET DDNAME           02010000
         MVC   TXTDSN+S99TUPAR-S99TUNIT(44),=CL44' ' BLANK OUT DSN      02020000
         MVC   TXTDSN+S99TUPAR-S99TUNIT(L'ZUSER),ZUSER COPY TSO USERID  02030000
         LA    R15,TXTDSN+S99TUPAR-S99TUNIT POINT TO WORK AREA          02040000
         LA    R14,44              SET COUNT                            02050000
FINDBLNX DS    0H                                                       02060000
         CLI   0(R15),C' '         FIND FIRST BLANK                     02070000
         BE    FOUNDBLX            FOUND IT-                            02080000
         LA    R15,1(R15)          POINT TO NEXT BYTE                   02090000
         BCT   R14,FINDBLNX                                             02100000
FOUNDBLX DS    0H                                                       02110000
         MVC   0(4,R15),=CL4'.TF.' SET MIDDLE NODE                      02120000
         LA    R15,4(R15)          INCREMENT POINTER                    02130000
         MVC   0(8,R15),DCBXDDNM   SET REST OF DSN                      02140000
         BAL   R9,DYNA             GO ALLOC FILE                        02150000
         B     CKERRORX            ERROR ON ALLOCATION                  02160000
NEXTLISS DS    0H                                                       02170000
         LA    R2,L'DCBXNEW(R2)    POINT TO NEXT ENTRY                  02180000
         B     DSLISTSX            CONTINUE                             02190000
CKERRORX DS    0H                                                       02200000
         CLC   =XL2'1708',DYNRB+S99ERROR-S99RB LOCATE ERROR?            02210000
         BNE   ERROR02             NO-                                  02220000
         LA    R1,DSALLOCN         POINT TO TEXT UNIT LIST              02230000
         ST    R1,DYNRB+S99TXTPP-S99RB STORE ADDRESS IN REQUEST BLK     02240000
         MVC   TXTRECFM+S99TUPAR-S99TUNIT(L'DCBXRFMT),DCBXRFMT          02250000
         MVC   TXTLRECL+S99TUPAR-S99TUNIT(L'DCBXLREC),DCBXLREC          02260000
         MVC   TXTBLKSZ+S99TUPAR-S99TUNIT(L'DCBXBLKS),DCBXBLKS          02270000
         MVC   TXTPRIME+S99TUPAR-S99TUNIT(L'DCBXPRIM),DCBXPRIM          02280000
         BAL   R9,DYNA             GO ALLOC FILE                        02290000
         B     ERROR02             ERROR ON ALLOCATION                  02300000
         B     NEXTLISS            CONTINUE                             02310000
         DROP  R2                                                       02320000
         SPACE 1                                                        02330000
*--------------------------------------------------------------------*  02340000
*        ALLOCATE DISP=OLD DATASETS NEEDED BY TRANSLATOR             *  02350000
*--------------------------------------------------------------------*  02360000
         SPACE 1                                                        02370000
ALLOCOLD DS    0H                                                       02380000
         MVI   DYNRB+S99VERB-S99RB,S99VRBAL SET TO ALLOCATE             02390000
         LA    R2,DSLISTO          POINT TO DATASET LIST                02400000
         USING DCBPARMS,R2         GET ADDRESSABILITY                   02410000
DSLISTOX DS    0H                                                       02420000
         LA    R1,DSALLOCO         POINT TO TEXT UNIT LIST              02430000
         ST    R1,DYNRB+S99TXTPP-S99RB STORE ADDRESS IN REQUEST BLK     02440000
         CLI   0(R2),C' '          END OF LIST?                         02450000
         BE    ALLOCSO             YES-                                 02460000
         MVC   TXTDD+S99TUPAR-S99TUNIT(8),DCBXDDNM SET DDNAME           02470000
         MVC   TXTDSN+S99TUPAR-S99TUNIT(44),=CL44' ' BLANK OUT DSN      02480000
         MVC   TXTDSN+S99TUPAR-S99TUNIT(L'ZUSER),ZUSER COPY TSO USERID  02490000
         LA    R15,TXTDSN+S99TUPAR-S99TUNIT POINT TO WORK AREA          02500000
         LA    R14,44              SET COUNT                            02510000
FINDBLNK DS    0H                                                       02520000
         CLI   0(R15),C' '         FIND FIRST BLANK                     02530000
         BE    FOUNDBLK            FOUND IT-                            02540000
         LA    R15,1(R15)          POINT TO NEXT BYTE                   02550000
         BCT   R14,FINDBLNK                                             02560000
FOUNDBLK DS    0H                                                       02570000
         MVC   0(4,R15),=CL4'.TF.' SET MIDDLE NODE                      02580000
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         LA    R15,4(R15)          INCREMENT POINTER                    02590000
         MVC   0(8,R15),DCBXDDNM   SET REST OF DSN                      02600000
         BAL   R9,DYNA             GO ALLOC FILE                        02610000
         B     CKERROR             ERROR ON ALLOCATION                  02620000
NEXTLISO DS    0H                                                       02630000
         LA    R2,L'DCBXNEW(R2)    POINT TO NEXT ENTRY                  02640000
         B     DSLISIOX            CONTINUE                             02650000
CKERROR  DS    0H                                                       02660000
         CLC   =XL2'1708',DYNRB+S99ERROR-S99RB LOCATE ERROR?            02670000
         BNE   ERROR02             NO-                                  02680000
         LA    R1,DSALLOCN         POINT TO TEXT UNIT LIST              02690000
         ST    R1,DYNRB+S99TXTPP-S99RB STORE ADDRESS IN REQUEST BLK     02700000
         MVC   TXTRECFM+S99TUPAR-S99TUNIT(L'DCBXRFMT),DCBXRFMT          02710000
         MVC   TXTLRECL+S99TUPAR-S99TUNIT(L'DCBXLREC),DCBXLREC          02720000
         MVC   TXTBLKSZ+S99TUPAR-S99TUNIT(L'DCBXBLKS),DCBXBLKS          02730000
         MVC   TXTPRIME+S99TUPAR-S99TUNIT(L'DCBXPRIM),DCBXPRIM          02740000
         BAL   R9,DYNA             GO ALLOC FILE                        02750000
         B     ERROR02             ERROR ON ALLOCATION                  02760000
         B     NEXTLISO            CONTINUE                             02770000
         DROP  R2                                                       02780000
         SPACE 1                                                        02790000
*-------------------------------------------------------------------*   02800000
*        ALLOCATE SYSOUT NEEDED BY TRANSLATOR                       *   02810000
*-------------------------------------------------------------------*   02820000
         SPACE 1                                                        02830000
ALLOCSO  DS    0H                                                       02840000
         LA    R1,SOALLOC          POINT TO TEXT UNIT LIST              02850000
         ST    R1,DYNRB+S99TXTPP-S99RB STORE ADDRESS IN REQUEST BLK     02860000
         MVI   DYNRB+S99VERB-S99RB,S99VRBAL SET TO ALLOCATE             02870000
         LA    R2,SOLIST           POINT TO SYSOUT LIST                 02880000
SOLISTX  DS    0H                                                       02890000
         CLI   0(R2),C' '          END OF LIST?                         02900000
         BE    GETVARS             YES-                                 02910000
         MVC   TXTDD+S99TUPAR-S99TUNIT(8),0(R2) COPY DDNAME             02920000
         BAL   R9,DYNA             GO ALLOC DATABASE                    02930000
         B     ERROR02             ERROR ON ALLOCATION                  02940000
         LA    R2,8(R2)            POINT TO NEXT DDNAME                 02950000
         B     SOLISTX             CONTINUE                             02960000
         SPACE 1                                                        02970000
*-------------------------------------------------------------------*   02980000
*        RETRIEVE PANEL VARIABLES FOR DISPLAY                       *   02990000
*-------------------------------------------------------------------*   03000000
         SPACE 1                                                        03010000
GETVARS  DS    0H                                                       03020000
         L     R15,ISPLADDR        LOAD ADDRESS OF ISPLINK ROUTINE      03030000
         CALL  (15),(VGET,SAVLIST,PROFILE),VL                           03040000
         SPACE 1                                                        03050000
*-------------------------------------------------------------------*   03060000
*        DISPLAY CONFIGURATION PANEL TO GET FILE NAMES              *   03070000
*-------------------------------------------------------------------*   03080000
         SPACE 1                                                        03090000
CONFIG   DS    0H                                                       03100000
         LA    R1,DSUNCONC         POINT TO TEXT UNIT LIST              03110000
         ST    R1,DYNRB+S99TXTPP-S99RB STORE ADDRESS IN REQUEST BLK     03120000
         MVI   DYNRB+S99VERB-S99RB,S99VRBDC SET TO UNALLOCATE           03130000
         LA    R2,DSLIST           POINT TO DS LIST                     03140000
UNCONC   DS    0H                                                       03150000
         CLC   =C'VSAM',0(R2)      END OF LIST?                         03160000
         BE    UNALCONF            YES-                                 03170000
         MVC   TXTDDU+S99TUPAR-S99TUNIT(8),0(R2) COPY DDNAME            03180000
         BAL   R9,DYNA             GO UNCONCAT FILES                    03190000
         B     *+4                 ERROR ON UNCONCAT                    03200000
         LA    R2,104(R2)          POINT TO NEXT DDNAME                 03210000
         B     UNCONC              CONTINUE                             03220000
UNALCONF DS    0H                                                       03230000
         LA    R1,DSUNALOC         POINT TO TEXT UNIT LIST              03240000
         ST    R1,DYNRB+S99TXTPP-S99RB STORE ADDRESS IN REQUEST BLK     03250000
         MVI   DYNRB+S99VERB-S99RB,S99VRBUN SET TO UNALLOCATE           03260000
         LA    R2,DSLIST           POINT TO DS LIST                     03270000
UNALDSX  DS    0H                                                       03280000
         CLI   0(R2),C' '          END OF LIST?                         03290000
         BE    DISPCONF            YES-                                 03300000
         MVC   TXTDD+S99TUPAR-S99TUNIT(8),0(R2) COPY DDNAME             03310000
         BAL   R9,DYNA             GO UNALLOCATE FILE                   03320000
         B     *+4                 ERROR ON UNALLOCATION                03330000
         LA    R2,52(R2)           POINT TO NEXT DDNAME                 03340000
         B     UNALDSX             CONTINUE                             03350000
         SPACE 1                                                        03360000
DISPCONF DS    0H                                                       03370000
         L     R15,ISPLADDR        LOAD ADDRESS OF ISPLINK ROUTINE      03380000
         CALL  (15),(DISPLAY,PANEL3),VL DISPLAY                         03390000
         SPACE 1                                                        03400000
         CH    R15,=H'8'           END/RETURN ENTERED?                  03410000
         BE    ENDSESS             YES-                                 03420000
         NI    FLAG1,FF-INIT       RESET INIT FLAG                      03430000
         SPACE 1                                                        03440000
*-------------------------------------------------------------------*   03450000
*        ALLOCATE DISP=SHR DATASETS NEEDED BY TRANSLATOR            *   03460000
*-------------------------------------------------------------------*   03470000
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         SPACE 1                                                        03480000
         LA    R1,DSALLOCS         POINT TO TEXT UNIT LIST            03490000
         ST    R1,DYNRB+S99TXTPP-S99RB STORE ADDRESS IN REQUEST BLK     03500000
         MVI   DYNRB+S99VERB-S99RB,S99VRBAL SET TO ALLOCATE             03510000
         LA    R2,DSLIST           POINT TO DATASET LIST              03520000
DSLISTX  DS    0H                                                       03530000
         CLI   0(R2),C' '          END OF LIST?                       03540000
         BE    CONCLIST            YES-                               03550000
         MVC   TXTDD+S99TUPAR-S99TUNIT(8),0(R2) COPY DDNAME             03560000
         MVC   TXTDSN+S99TUPAR-S99TUNIT(44),8(R2) COPY DS NAME          03570000
         BAL   R9,DYNA             GO ALLOC FILE                      03580000
         B     ERROR02             ERROR ON ALLOCATION                03590000
         LA    R2,52(R2)           POINT TO NEXT DATASET NAME         03600000
         B     DSLISTX             CONTINUE                           03610000
CONCLIST DS    0H                                                       03620000
         LA    R1,DSCONCLS         POINT TO TEXT UNIT LIST            03630000
         ST    R1,DYNRB+S99TXTPP-S99RB STORE ADDRESS IN REQUEST BLK     03640000
         MVI   DYNRB+S99VERB-S99RB,S99VRBCC SET TO ALLOCATE             03650000
         LA    R2,DSLIST           POINT TO DATASET LIST              03660000
CONCNEXT DS    0H                                                       03670000
         CLC   =C'VSAM',0(R2)      END OF LIST?                       03680000
         BE    DISPPRIM            YES-                               03690000
         MVC   TXTCONC+S99TUPAR-S99TUNIT(8),0(R2) COPY DDNAME           03700000
         LA    R2,52(R2)           POINT TO NEXT DDNAME               03710000
         MVC   TXTCONCX,0(R2)      COPY SECOND DDNAME                 03720000
         BAL   R9,DYNA             GO ALLOC FILE                      03730000
         B     ERROR02             ERROR ON ALLOCATION                03740000
         LA    R2,52(R2)           POINT TO NEXT DDNAME               03750000
         B     CONCNEXT            CONTINUE                           03760000
         SPACE 1                                                        03770000
*-------------------------------------------------------------------*  03780000
*        DISPLAY PRIMARY PANEL                                      *  03790000
*-------------------------------------------------------------------*  03800000
         SPACE 1                                                        03810000
DISPPRIM DS    0H                                                       03820000
         LA    R12,LOGDCB          POINT TO LOG DCB                   03830000
         TM    DCBOFLGS,DCBOFOPN   IS IT OPEN?                        03840000
         BNO   LOGCLOSE            NO-                                03850000
         SPACE 1                                                        03860000
         CLOSE ((R12))             CLOSE IT                           03870000
         SPACE 1                                                        03880000
         LR    R1,R12              COPY DCB ADDRESS                   03890000
         SPACE 1                                                        03900000
         FREEPOOL (1)              FREE QSAM BUFFERS                  03910000
LOGCLOSE DS    0H                                                       03920000
         LA    R1,DSUNALOC         POINT TO TEXT UNIT LIST            03930000
         ST    R1,DYNRB+S99TXTPP-S99RB STORE ADDRESS IN REQUEST BLK     03940000
         MVI   DYNRB+S99VERB-S99RB,S99VRBUN SET TO UNALLOCATE           03950000
         MVC   TXTDD+S99TUPAR-S99TUNIT(8),=CL8'USERFILE'                03960000
         BAL   R9,DYNA             GO UNALLOC                         03970000
         B     *+4                 ERROR ON UNALLOCATION              03980000
         MVC   TXTDD+S99TUPAR-S99TUNIT(8),=CL8'INPUT'                   03990000
         BAL   R9,DYNA             GO UNALLOC                         04000000
         B     *+4                 ERROR ON UNALLOCATION              04010000
         MVC   TXTDD+S99TUPAR-S99TUNIT(8),=CL8'SGMTFILE'                04020000
         BAL   R9,DYNA             GO UNALLOC                         04030000
         B     *+4                 ERROR ON UNALLOCATION              04040000
         SPACE 1                                                        04050000
         MVC   TXTDD+S99TUPAR-S99TUNIT(8),=CL8'LOG'                     04060000
         BAL   R9,DYNA             GO UNALLOC                         04070000
         B     *+4                 ERROR ON UNALLOCATION              04080000
         SPACE 1                                                        04090000
         L     R15,ISPLADDR        LOAD ADDRESS OF ISPLINK ROUTINE    04100000
         CALL  (15),(TBTOP,VARTABLE),VL DISPLAY                         04110000
         SPACE 1                                                        04120000
         L     R15,ISPLADDR        LOAD ADDRESS OF ISPLINK ROUTINE    04130000
         CALL  (15),(TBDISPL,VARTABLE,PRIMARY),VL DISPLAY               04140000
         SPACE 1                                                        04150000
         CH    R15,=H'8'           END/RETURN ENTERED?                04160000
         BE    CONFIG              YES-                               04170000
         SPACE 2                                                        04180000
*-------------------------------------------------------------------*  04190000
*        DELETE AND RECREATE TABLE OF ERRORS                        *  04200000
*-------------------------------------------------------------------*  04210000
         SPACE 2                                                        04220000
         L     R15,ISPLADDR        LOAD ADDRESS OF ISPLINK ROUTINE    04230000
         CALL  (15),(TBCLOSE,VARTABLE),VL                               04240000
         SPACE 1                                                        04250000
         L     R15,ISPLADDR        LOAD ADDRESS OF ISPLINK ROUTINE    04260000
         CALL  (15),(TBCREATE,VARTABLE,,VARLIST,NOWRITE),VL             04270000
         SPACE 1                                                        04280000
         LTR   R15,R15             ERROR?                             04290000
         BNZ   ERROR01             YES-                               04300000
         SPACE 2                                                        04310000
*-------------------------------------------------------------------*  04320000
*        ALLOCATE INPUT FILE SPECIFIED BY USER                      *  04330000
*-------------------------------------------------------------------*  04340000
         SPACE 2                                                        04350000
         LA    R1,DSALLOCS         POINT TO TEXT UNIT LIST            04360000
         ST    R1,DYNRB+S99TXTPP-S99RB STORE ADDRESS IN REQUEST BLK     04370000
         MVI   DYNRB+S99VERB-S99RB,S99VRBAL SET TO ALLOCATE             04380000
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         MVC   TXTDD+S99TUPAR-S99TUNIT(8),=CL8'USERFILE' SET DDNAME     04390000
         MVC   TXTDSN+S99TUPAR-S99TUNIT(44),DSN   COPY DS NAME         04400000
         BAL   R9,DYNA                GO ALLOC FILE                    04410000
         B     ERROR02                 ERROR ON ALLOCATION             04420000
         SPACE 1                                                       04430000
         LA    R1,DSALLOC0             POINT TO TEXT UNIT LIST         04440000
         ST    R1,DYNRB+S99TXTPP-S99RB STORE ADDRESS IN REQUEST BLK    04450000
         MVI   DYNRB+S99VERB-S99RB,S99VRBAL SET TO ALLOCATE            04460000
         MVC   TXTDD+S99TUPAR-S99TUNIT(8),=CL8'LOG' SET DDNAME         04470000
         MVC   TXTDSN+S99TUPAR-S99TUNIT(44),DSNL  COPY DS NAME         04480000
         BAL   R9,DYNA                GO ALLOC FILE                    04490000
         B     ERROR02                 ERROR ON ALLOCATION             04500000
         LA    R1,DSALLOC0             POINT TO TEXT UNIT LIST         04510000
         ST    R1,DYNRB+S99TXTPP-S99RB STORE ADDRESS IN REQUEST BLK    04520000
         MVI   DYNRB+S99VERB-S99RB,S99VRBAL SET TO ALLOCATE            04530000
         MVC   TXTDD+S99TUPAR-S99TUNIT(8),=CL8'INPUT' SET DDNAME       04540000
         MVC   TXTDSN+S99TUPAR-S99TUNIT(44),DSNH  COPY DS NAME         04550000
         BAL   R9,DYNA                GO ALLOC FILE                    04560000
         B     ERROR02                 ERROR ON ALLOCATION             04570000
         LA    R12,INPDCB              POINT TO DCB                    04580000
         MVC   DDERR,DCBDDNAM          SET DDNAME IN ERROR MSG         04590000
         SPACE 1                                                       04600000
         OPEN  ((R12),(INPUT))         OPEN FILE                       04610000
         SPACE 1                                                       04620000
         TM    DCBOFLGS,DCBOFOPN       WAS OPEN SUCCESSFUL?            04630000
         BNO   ERROR06                 NO-                             04640000
         TM    DCBRECFM,DCBRECF+DCBRECBR FB RECORDS?                   04650000
         BNO   ERROR10                 ERROR                           04660000
         LH    R0,DCBLRECL             GET LRECL                       04670000
         CH    R0,=H'80'               LRECL = 80?                     04680000
         BNE   ERROR10                 NO ERROR                        04690000
         SPACE 1                                                       04700000
         CLOSE ((R12))                 CLOSE FILE                      04710000
         SPACE 1                                                       04720000
         MVI   DYNRB+S99VERB-S99RB,S99VRBAL SET TO ALLOCATE            04730000
         MVC   TXTDD+S99TUPAR-S99TUNIT(8),=CL8'SGMTFILE' SET DDNAME    04740000
         MVC   TXTDSN+S99TUPAR-S99TUNIT(44),DSNS  COPY DS NAME         04750000
         BAL   R9,DYNA                GO ALLOC FILE                    04760000
         B     ERROR02                 ERROR ON ALLOCATION             04770000
         LA    R12,OUTDCBX             POINT TO DCB                    04780000
         MVC   DDERR,DCBDDNAM          SET DDNAME IN ERROR MSG         04790000
         SPACE 1                                                       04800000
         OPEN  ((R12),(INPUT))         OPEN FILE                       04810000
         SPACE 1                                                       04820000
         TM    DCBOFLGS,DCBOFOPN       WAS OPEN SUCCESSFUL?            04830000
         BNO   ERROR06                 NO-                             04840000
         TM    DCBRECFM,DCBRECV+DCBRECBR VB RECORDS?                   04850000
         BNO   ERROR11                 NO- ERROR                       04860000
         LH    R0,DCBLRECL             GET LRECL                       04870000
         CH    R0,=H'259'              LRECL = 259?                    04880000
         BNE   ERROR11                 NO ERROR                        04890000
         SPACE 1                                                       04900000
         CLOSE ((R12))                 CLOSE FILE                      04910000
         SPACE 1                                                       04920000
         MVC   IDCB,=CL8'USERFILE' SET INPUT DDNAME FOR REBLOCK        04930000
         MVC   ODCB,=CL8'INPUT' SET OUTPUT DDNAME FOR REBLOCK          04940000
         LA    R12,LOGDCB              POINT TO STORE DCB              04950000
         MVC   DDERR,DCBDDNAM          SET DDNAME IN ERROR MSG         04960000
         SPACE 1                                                       04970000
         OPEN  ((R12),(OUTPUT))        OPEN FILE                       04980000
         SPACE 1                                                       04990000
         TM    DCBOFLGS,DCBOFOPN       WAS OPEN SUCCESSFUL?            05000000
         BNO   ERROR06                 NO-                             05010000
TRANLOOP DS    0H                                                     05020000
         SPACE 1                                                       05030000
         CALL  REBLK,(DCBNAMES),VL GO REBLOCK FILE FOR XLATOR          05040000
         SPACE 1                                                       05050000
         LTR   R15,R15                 REBLOCK OK?                     05060000
         BNZ   ERROR04                 NO-                             05070000
         SPACE 1                                                       05080000
         L     R15,ISPLADDR            LOAD ADDRESS OF ISPLINK ROUTINE 05090000
         SPACE 1                                                       05100000
         CALL  (15),(SELECT,LENGTH11,SELCMD),VL                        05110000
         SPACE 1                                                       05120000
         LTR   R15,R15                 BYPASS CHECK                    05130000
         BNZ   BYPASST                 YES-                            05140000
         SPACE 1                                                       05150000
*--------------------------------------------------------------------* 05160000
*        GET INFORMATION ABOUT PROBLEM                               * 05170000
*--------------------------------------------------------------------* 05180000
         SPACE 1                                                       05190000
CHECKERR DS    0H                                                     05200000
         LA    R12,ERRDCB              POINT TO ERROR DCB              05210000
         MVC   DDERR,DCBDDNAM          SET DDNAME IN ERROR MSG         05220000
         LA    R0,BYPASST              SET EOD ADDRESS                 05230000
         STCM  R0,B'0111',DCBEODA      IN DCB                          05240000
         SPACE 1                                                       05250000
         OPEN  ((R12),(INPUT))         OPEN FILE                       05260000
         SPACE 1                                                       05270000
         TM    DCBOFLGS,DCBOFOPN       WAS OPEN SUCCESSFUL?            05280000
         BNO   ERROR06                 NO-                             05290000
         L     R0,BUFFER               GET BUFFER ADDRESS              05300000
```

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         SPACE 1                                                        05310000
         GET   ERRDCB              RETRIEVE ERROR RECORD                05320000
         SPACE 1                                                        05330000
         CLOSE ((R12))             CLOSE FILE                           05340000
         SPACE 1                                                        05350000
         LR    R1,R12              COPY DCB ADDRESS                     05360000
         SPACE 1                                                        05370000
         FREEPOOL (1)              FREE QSAM BUFFERS                    05380000
         SPACE 1                                                        05390000
         L     R6,BUFFER           GET ERROR BUFFER ADDRESS             05400000
         AH    R6,=H'4'            POINT PAST RDW                       05410000
         USING TRANREC,R6          GET ADDRESSABILITY                   05420000
         MVC   STD,TRANSTND        SET STANDARD                         05430000
         MVC   RLS,TRANRLSE        SET RELEASE                          05440000
         MVC   VERS,TRANVERS       SET VERSION                          05450000
         MVC   AGCY,TRANAGCY       SET AGENCY                           05460000
         MVC   REAS,TRANREAS       SET REASON                           05470000
         MVC   LASTSEG,TRANLAST    SET LAST SEGMENT PROCESSED           05480000
         PACK  DBLWORD,TRANLAST    PACK LAST SEGMENT FIELD              05490000
         AP    DBLWORD,=P'1'       ADD ONE TO GET PROBLEM SGMT          05500000
         UNPK  NUMB,DBLWORD        GET IT BACK TO EBCDIC                05510000
         OI    NUMB+5,X'F0'        SET ZONE                             05520000
         MVC   SEP,TRANSDLM        SET SEGMENT DELIMETER                05530000
         SPACE 1                                                        05540000
*--------------------------------------------------------------------*  05550000
*        UPDATE LOG                                                  *  05560000
*--------------------------------------------------------------------*  05570000
         SPACE 1                                                        05580000
         L     R2,BUFFER           GET BUFFER ADDRESS                   05590000
         MVC   0(80,R2),=CL80' '   BLANK OUT BUFFER                     05600000
         MVC   0(L'REAS,R2),REAS   COPY INTO BUFFER                     05610000
         SPACE 1                                                        05620000
         PUT   LOGDCB,(R2)         WRITE RECORD                         05630000
         SPACE 1                                                        05640000
*--------------------------------------------------------------------*  05650000
*        ADD REASON TO TABLE                                         *  05660000
*--------------------------------------------------------------------*  05670000
         SPACE 1                                                        05680000
         L     R15,ISPLADDR        LOAD ADDRESS OF ISPLINK ROUTINE      05690000
         CALL  (15),(TBADD,VARTABLE),VL                                 05700000
         SPACE 1                                                        05710000
         LTR   R15,R15             ERROR?                               05720000
         BNZ   ERROR07             YES-                                 05730000
         SPACE 1                                                        05740000
*--------------------------------------------------------------------*  05750000
*        BUILD STORE FILE                                            *  05760000
*--------------------------------------------------------------------*  05770000
         SPACE 1                                                        05780000
         LA    R12,STOREDCB        POINT TO STORE DCB                   05790000
         MVC   DDERR,DCBDDNAM      SET DDNAME IN ERROR MSG              05800000
         SPACE 1                                                        05810000
         OPEN  ((R12),(OUTPUT))    OPEN FILE                            05820000
         SPACE 1                                                        05830000
         TM    DCBOFLGS,DCBOFOPN   WAS OPEN SUCCESSFUL?                 05840000
         BNO   ERROR06             NO-                                  05850000
         L     R2,BUFFER           GET BUFFER ADDRESS                   05860000
         MVC   0(80,R2),=CL80' '   BLANK OUT BUFFER                     05870000
         LA    R6,TRANSTOR         POINT TO TAG                         05880000
         USING TRANSTOR,R6         GET ADDRESSABILITY                   05890000
STORCONT DS    0H                                                       05900000
         CLC   TRANTAG(L'BEDZERO),BEDZERO END OF VALUES?                05910000
         BE    STORQUIT            YES-                                 05920000
         MVC   0(L'TRANSTOR,R2),TRANSTOR COPY INTO BUFFER               05930000
         SPACE 1                                                        05940000
         PUT   STOREDCB,(R2)       WRITE RECORD                         05950000
         SPACE 1                                                        05960000
         LA    R6,L'TRANSTOR(R6)   INCREMENT POINTER                    05970000
         B     STORCONT            CONTINUE                             05980000
STORQUIT DS    0H                                                       05990000
         CLOSE ((R12))             CLOSE IT                             06000000
         SPACE 1                                                        06010000
         LR    R1,R12              COPY DCB ADDRESS                     06020000
         SPACE 1                                                        06030000
         FREEPOOL (1)              FREE QSAM BUFFERS                    06040000
         SPACE 1                                                        06050000
*--------------------------------------------------------------------*  06060000
*        OPEN INPUT FILE                                             *  06070000
*--------------------------------------------------------------------*  06080000
         SPACE 1                                                        06090000
         LA    R12,INPDCB          POINT TO INPUT DCB                   06100000
         MVC   DDERR,DCBDDNAM      SET DDNAME IN ERROR MSG              06110000
         SPACE 1                                                        06120000
         OPEN  ((R12),(INPUT))     OPEN FILE                            06130000
         SPACE 1                                                        06140000
         TM    DCBOFLGS,DCBOFOPN   WAS OPEN SUCCESSFUL?                 06150000
         BNO   ERROR06             NO-                                  06160000
         SPACE 1                                                        06170000
*--------------------------------------------------------------------*  06180000
*        OPEN TEMPORARY FILE FOR OUTPUT                              *  06190000
*--------------------------------------------------------------------*  06200000
```

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         SPACE 1                                                        06210000
         LA    R12,OUTDCB          POINT TO OUTPUT DCB                 06220000
         MVC   DDERR,DCBDDNAM      SET DDNAME IN ERROR MSG             06230000
         SPACE 1                                                       06240000
         OPEN  ((R12),(OUTPUT))    OPEN FILE                           06250000
         SPACE 1                                                       06260000
         TM    DCBOFLGS,DCBOFOPN   WAS OPEN SUCCESSFUL?                06270000
         BNO   ERROR06             NO-                                 06280000
         NI    BEDFLAG1,FF-INEOF-PERMIERR RESET FLAGS                  06290000
NEXTSGMT DS    0H                                                      06300000
         BAL   R9,FINDSGMT         YES- GO FIND SEGMENT                06310000
         B     ERROR08             ERROR-                              06320000
         B     CLOSEOUT            EOF-                                06330000
         L     R0,BUFFRDW          POINT TO SEGMENT                    06340000
         SPACE 1                                                       06350000
         PUT   OUTDCB              WRITE IT                            06360000
         SPACE 1                                                       06370000
         B     NEXTSGMT            NORMAL                              06380000
CLOSEOUT DS    0H                                                      06390000
         LA    R12,OUTDCB          POINT TO OUTPUT DCB                 06400000
         SPACE 1                                                       06410000
         CLOSE ((R12))             CLOSE IT                            06420000
         SPACE 1                                                       06430000
         LR    R1,R12              COPY DCB ADDRESS                    06440000
         SPACE 1                                                       06450000
         FREEPOOL (1)              FREE QSAM BUFFERS                   06460000
         SPACE 1                                                       06470000
*--------------------------------------------------------------------* 06480000
*        BRING UP EDIT FACILITY FOR INPUT FILE                       * 06490000
*--------------------------------------------------------------------* 06500000
         SPACE 1                                                       06510000
EDITSGMT DS    0H                                                      06520000
         MVC   TDSN,DSNS           SET SEGMENT FILE NAME?              06530000
         LA    R1,TDSN             POINT TO DSN                        06540000
         B     *+8                                                     06550000
IDSNLOOP DS    0H                                                      06560000
         LA    R1,1(R1)            POINT TO NEXT BYTE                  06570000
         CLI   0(R1),C' '          IS THIS A BLANK DELIMETER           06580000
         BNE   IDSNLOOP            NO- CONTINUE                        06590000
         MVI   0(R1),C'''          MOVE IN ASTERISK                    06600000
                                                                       06610000
SKIPTDLM DS    0H                                                      06620000
         L     R15,ISPLADDR        LOAD ADDRESS OF ISPLINK ROUTINE     06630000
         CALL  (15),(EDIT,TEMPDSN,,,PANEL2),VL                         06640000
         SPACE 1                                                       06650000
         CH    R15,=H'4'           ABNORMAL RETURN?                    06660000
         BH    ERROR09             YES-                                06670000
         BE    BYPASSX             NORMAL RETURN(NOSAVE)               06680000
         MVC   IDCB,=CL8'SGMTFILE' SET INPUT DDNAME FOR REBLOCK        06690000
         B     TRANLOOP            GO TRANSLATE AGAIN                  06700000
BYPASST  DS    0H                                                      06710000
         SPACE 1                                                       06720000
         CLOSE ((R12))             CLOSE FILE                          06730000
         SPACE 1                                                       06740000
         LR    R1,R12              COPY DCB ADDRESS                    06750000
         SPACE 1                                                       06760000
         FREEPOOL (1)              FREE QSAM BUFFERS                   06770000
         SPACE 1                                                       06780000
         MVC   MSGID,=CL8'EDIL050' SET MSGID                           06790000
         BAL   R9,SETMSGX          DISPLAY MSG                         06800000
         B     DISPPRIM            DISPLAY RESULTS                     06810000
BYPASSX  DS    0H                                                      06820000
         MVC   MSGID,=CL8'EDIL063' SET MSGID                           06830000
         BAL   R9,SETMSGX          DISPLAY MSG                         06840000
         B     DISPPRIM            DISPLAY RESULTS                     06850000
         SPACE 1                                                       06860000
*--------------------------------------------------------------------* 06870000
*        UNALLOCATE ALL FILES USED                                   * 06880000
*--------------------------------------------------------------------* 06890000
         SPACE 1                                                       06900000
ENDSESS  DS    0H                                                      06910000
         ESTAE 0                   CANCEL ESTAE                        06920000
         SPACE 1                                                       06930000
         LA    R1,DSUNALOC         POINT TO TEXT UNIT LIST             06940000
         ST    R1,DYNRB+S99TXTPP-S99RB STORE ADDRESS IN REQUEST BLK    06950000
         MVI   DYNRB+S99VERB-S99RB,S99VRBUN SET TO UNALLOCATE          06960000
         LA    R2,SOLIST           POINT TO SYSOUT LIST                06970000
UNALSYSO DS    0H                                                      06980000
         CLI   0(R2),C' '          END OF LIST?                        06990000
         BE    UNALDSO             YES-                                07000000
         MVC   TXTDD+S99TUPAR-S99TUNIT(8),0(R2) COPY DDNAME            07010000
         BAL   R9,DYNA             GO UNALLOC                          07020000
         B     *+4                 ERROR ON UNALLOCATION               07030000
         LA    R2,8(R2)            POINT TO NEXT DDNAME                07040000
         B     UNALSYSO            CONTINUE                            07050000
UNALDSO  DS    0H                                                      07060000
         LA    R2,DSLISTO          POINT TO DS LIST                    07070000
UNALDSXO DS    0H                                                      07080000
         CLI   0(R2),C' '          END OF LIST?                        07090000
         BE    UNALDSS             YES-                                07100000
         MVC   TXTDD+S99TUPAR-S99TUNIT(8),0(R2) COPY DDNAME            07110000
         BAL   R9,DYNA             GO UNALLOCATE FILE
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         B     *+4                 ERROR ON UNALLOCATION                07120000
         LA    R2,L'DCBXNEW(R2)    POINT TO NEXT DDNAME                 07130000
         B     UNALDSXO            CONTINUE                             07140000
         SPACE 1                                                        07150000
UNALDSS  DS    0H                                                       07160000
         LA    R2,DSLISTS          POINT TO DS LIST                     07170000
UNALDSXS DS    0H                                                       07180000
         CLI   0(R2),C' '          END OF LIST?                         07190000
         BE    CLOSTABL            YES-                                 07200000
         MVC   TXTDD+S99TUPAR-S99TUNIT(8),0(R2) COPY DDNAME             07210000
         BAL   R9,DYNA             GO UNALLOCATE FILE                   07220000
         B     *+4                 ERROR ON UNALLOCATION                07230000
         LA    R2,L'DCBXNEW(R2)    POINT TO NEXT DDNAME                 07240000
         B     UNALDSXS            CONTINUE                             07250000
         SPACE 1                                                        07260000
CLOSTABL DS    0H                                                       07270000
         L     R15,ISPLADDR        LOAD ADDRESS OF ISPLINK ROUTINE      07280000
         CALL  (15),(TBCLOSE,VARTABLE),VL                               07290000
         SPACE 1                                                        07300000
         L     R15,ISPLADDR        LOAD ADDRESS OF ISPLINK ROUTINE      07310000
         CALL  (15),(VPUT,SAVLIST,PROFILE),VL                           07320000
         SPACE 1                                                        07330000
*--------------------------------------------------------------------*  07340000
*        RESTORE REGISTERS AND RETURN TO CALLER                      *  07350000
*--------------------------------------------------------------------*  07360000
         SPACE 1                                                        07370000
RETURNX  DS    0H                                                       07380000
         L     R13,4(,R13)         RESTORE CALLERS SAVE AREA            07390000
         L     R14,12(,R13)                        RETURN ADDRESS       07400000
         LM    R0,R12,20(R13)                      REGISTERS            07410000
         BR    R14                                                      07420000
         SPACE 1                                                        07430000
*--------------------------------------------------------------------*  07440000
*        THIS SUBROUTINE WILL UN/ALLOCATE THE FILES NEEDED.          *  07450000
*        RETURN TO THE CALLER WITH A DISPLACEMENT DEPENDING ON       *  07460000
*        THE RETURN CODE IN R15.                                     *  07470000
*                                                                    *  07480000
*        ON ENTRY: R9 => RETURN ADDRESS                              *  07490000
*                                                                    *  07500000
*        RETURNS : 0(R9) => ERROR RETURN                             *  07510000
*                  4(R9) => NORMAL RETURN                            *  07520000
*                                                                    *  07530000
*--------------------------------------------------------------------*  07540000
         SPACE 1                                                        07550000
DYNA     DS    0H                                                       07560000
         LA    R1,DYNRBP           SET UP REQUEST BLOCK CHAIN           07570000
         SPACE 1                                                        07580000
         DYNALLOC ,                GO ALLOCATE IT                       07590000
         SPACE 1                                                        07600000
         LTR   R15,R15             ALLOCATION SUCCESSFUL?               07610000
         BNZ   0(R9)               NO- TAKE EXIT RETURN                 07620000
         B     4(R9)               TAKE NORMAL RETURN                   07630000
         SPACE 1                                                        07640000
*--------------------------------------------------------------------*  07650000
*        LOG MESSAGES                                                *  07660000
*--------------------------------------------------------------------*  07670000
         SPACE 1                                                        07680000
LOGIT    DS    0H                                                       07690000
         L     R15,ISPLADDR        LOAD ADDRESS OF ISPLINK ROUTINE      07700000
         CALL  (15),(LOG,MSGID),VL LOG IT                               07710000
         SPACE 1                                                        07720000
         BR    R9                  RETURN                               07730000
         SPACE 1                                                        07740000
*--------------------------------------------------------------------*  07750000
*        SET MESSAGES                                                *  07760000
*--------------------------------------------------------------------*  07770000
         SPACE 1                                                        07780000
SETMSGX  DS    0H                                                       07790000
         L     R15,ISPLADDR        LOAD ADDRESS OF ISPLINK ROUTINE      07800000
         CALL  (15),(SETMSG,MSGID),VL LOG IT                            07810000
         SPACE 1                                                        07820000
         BR    R9                  RETURN                               07830000
         SPACE 1                                                        07840000
*--------------------------------------------------------------------*  07850000
*        ERROR ROUTINES                                              *  07860000
*--------------------------------------------------------------------*  07870000
         SPACE 1                                                        07880000
ERROR01  DS    0H                  TABLE CREATE ERROR                   07890000
         ST    R15,RTNCODE         SAVE RETURN CODE                     07900000
         MVC   MSGID,=CL8'EDIL051' SET MSG ID FAILURE                   07910000
         B     ERROR               ;                                    07920000
         SPACE 1                                                        07930000
ERROR02  DS    0H                  ALLOCATION FAILURE                   07940000
         ST    R15,RTNCODE         SAVE RETURN CODE                     07950000
         MVC   REEZCODE,DYNRB+S99ERROR-S99RB SET REASON CODE            07960000
         MVC   DDERR,TXTDD+S99TUPAR-S99TUNIT SET DDNAME IN MSG         07970000
         MVC   MSGID,=CL8'EDIL052' SET MSG ID FAILURE                   07980000
         B     ERROR                                                    07990000
         SPACE 1                                                        08000000
ERROR03  DS    0H                  ALLOCATION FAILURE                   08010000
         ST    R15,RTNCODE         SAVE RETURN CODE                     08020000
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         MVC   REEZCODE,DYNRB+S99ERROR-S99RB SET REASON CODE          08030000
         MVC   DDERR,TXTDD+S99TUPAR-S99TUNIT SET DDNAME IN MSG       08040000
         MVC   MSGID,=CL8'EDIL053' SET MSG ID FAILURE                08050000
         B     ERROR                                                 08060000
         SPACE 1                                                     08070000
ERROR04  DS    0H                  REBLOCK ERROR                    08080000
         ST    R15,RTNCODE         SAVE RETURN CODE                 08090000
         MVC   MSGID,=CL8'EDIL054' SET MSG ID FAILURE                08100000
         B     ERROR                                                 08110000
         SPACE 1                                                     08120000
ERROR05  DS    0H                  ATTACH FAILURE                   08130000
         ST    R15,RTNCODE         SAVE RETURN CODE                 08140000
         MVC   MSGID,=CL8'EDIL055' SET MSG ID FAILURE                08150000
         B     ERROR                                                 08160000
         SPACE 1                                                     08170000
ERROR06  DS    0H                  OPEN FAILURE                     08180000
         MVC   MSGID,=CL8'EDIL056' SET MSG ID FAILURE                08190000
         B     ERROR                                                 08200000
         SPACE 1                                                     08210000
ERROR07  DS    0H                  TBADD FAILURE                    08220000
         ST    R15,RTNCODE         SAVE RETURN CODE                 08230000
         MVC   MSGID,=CL8'EDIL057' SET MSG ID FAILURE                08240000
         B     ERROR                                                 08250000
         SPACE 1                                                     08260000
ERROR08  DS    0H                  PARSE SEGMENT                    08270000
         LA    R12,INPDCB          POINT TO INPUTDCB                08280000
         SPACE 1                                                     08290000
         CLOSE ((R12))             CLOSE IT                         08300000
         SPACE 1                                                     08310000
         LR    R1,R12              COPY DCB ADDRESS                 08320000
         SPACE 1                                                     08330000
         FREEPOOL (1)              FREE QSAM BUFFERS                08340000
         SPACE 1                                                     08350000
         LA    R12,OUTDCB          POINT TO OUTPUT DCB              08360000
         SPACE 1                                                     08370000
         CLOSE ((R12))             CLOSE IT                         08380000
         SPACE 1                                                     08390000
         LR    R1,R12              COPY DCB ADDRESS                 08400000
         SPACE 1                                                     08410000
         FREEPOOL (1)              FREE QSAM BUFFERS                08420000
         SPACE 1                                                     08430000
         MVC   MSGID,=CL8'EDIL058' SET MSG ID FAILURE                08440000
         B     ERROR                                                 08450000
         SPACE 1                                                     08460000
ERROR09  DS    0H                  EDIT ERROR                       08470000
         ST    R15,RTNCODE         SAVE RETURN CODE                 08480000
         MVC   MSGID,=CL8'EDIL059' SET MSG ID FAILURE                08490000
         B     ERROR                                                 08500000
         SPACE 1                                                     08510000
ERROR10  DS    0H                  WORK FILE FORMAT ERROR           08520000
         CLOSE ((R12))             CLOSE FILE                       08530000
         SPACE 1                                                     08540000
         MVC   MSGID,=CL8'EDIL060' SET MSG ID FAILURE                08550000
         B     ERROR                                                 08560000
         SPACE 1                                                     08570000
ERROR11  DS    0H                  SEGMENT FILE FORMAT ERROR        08580000
         SPACE 1                                                     08590000
         CLOSE ((R12))             CLOSE FILE                       08600000
         SPACE 1                                                     08610000
         MVC   MSGID,=CL8'EDIL061' SET MSG ID FAILURE                08620000
         B     ERROR                                                 08630000
         SPACE 1                                                     08640000
ERROR12  DS    0H                  SYSTEM ABEND                     08650000
         MVC   MSGID,=CL8'EDIL062' SET MSG ID FAILURE                08660000
         B     ERROR                                                 08670000
         SPACE 1                                                     08680000
ERROR    DS    0H                  EDIT ERROR                       08690000
         BAL   R9,LOGIT            GO LOG IT                        08700000
         BAL   R9,SETMSGX          GO DISPLAY MSG                   08710000
         TM    FLAG1,INIT          ARE WE INITIALIZING?             08720000
         BO    ENDSESS             YES- END SESSION                 08730000
         B     DISPPRIM            NO- DISPLAY PANEL                08740000
         SPACE 1                                                     08750000
*--------------------------------------------------------------------* 08760000
*                                                                    * 08770000
*        THE FOLLOWING ROUTINE RETRIEVES THE NEXT LOGICAL RECORD     * 08780000
*        FROM A DASD DATASET.                                        * 08790000
*                                                                    * 08800000
*        INPUTS:                                                     * 08810000
*                                                                    * 08820000
*        R5 -  RETURN ADDRESS                                        * 08830000
*                                                                    * 08840000
*        OUTPUTS:                                                    * 08850000
*                                                                    * 08860000
*        R0  - INPUT RECORD LENGTH                                   * 08870000
*        R1  - INPUT RECORD ADDRESS                                  * 08880000
*                                                                    * 08890000
*--------------------------------------------------------------------* 08900000
         SPACE 2                                                     08910000
READFILE DS    0H                  ENTRY POINT IDENTIFIER           08920000
         STM   R14,R1,SAVEREGS     SAVE REGISTERS                   08930000
         LA    R12,INPDCB                                           08940000
```

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         TM    BEDFLAG1,INEOF+PERMIERR  EOF PREVIOUSLY REACHED?          08950000
         BC    NALLOFF,READEOF          YES-                            08960000
         LA    R0,READEOF               POINT TO EOF EXIT ROUTINE       08970000
         STCM  R0,B'0111',DCBEODA       SAVE EODAD ADDR                 08980000
         LA    R0,READSYN               POINT TO SYNAD EXIT ROUTINE     08990000
         STCM  R0,B'0111',DCBSYNA       SAVE SYNAD ADDRESS              09000000
         SPACE 1                                                        09010000
         GET   INPDCB                   RETRIEVE NEXT RECORD            09020000
         SPACE 1                                                        09030000
         TM    DCBRECFM,DCBRECU         RECFM U?                        09040000
         BC    ALLON,RECU               YES-                            09050000
         TM    DCBRECFM,DCBRECV         RECFM V?                        09060000
         BC    ALLON,RECV               YES-                            09070000
         SPACE 1                                                        09080000
*        UNDEFINED OR FIXED LENGTH RECORD FORMAT                        09090000
         SPACE 1                                                        09100000
RECU     DS    0H                                                       09110000
         LH    R0,DCBLRECL              LOAD RECORD LENGTH READ         09120000
         LTR   R0,R0                    UNBLOCKED RECORDS?              09130000
         BC    NZERO,READF200           NO-                             09140000
         LH    R0,DCBBLKSI              RETRIEVE BLOCKSIZE              09150000
         B     READF200                 RETURN                          09160000
         SPACE 1                                                        09170000
*        VARIABLE LENGTH RECORD FORMAT                                  09180000
         SPACE 1                                                        09190000
RECV     DS    0H                                                       09200000
         LH    R0,0(,R1)                RETRIEVE VARIABLE RECORD LENGTH 09210000
         LA    R1,4(,R1)                POINT TO DATA PORTION OF RECORD 09220000
         S     R0,=F'4'                 ADJUST LENGTH FOR RDW           09230000
         B     READF200                 RETURN                          09240000
READEOF  DS    0H                                                       09250000
         SLR   R0,R0                    CLEAR READ LENGTH               09260000
         OI    BEDFLAG1,INEOF           SET EOF ENCOUNTERED             09270000
READCLS  DS    0H                                                       09280000
         TM    DCBOFLGS,DCBOFOPN        IS DATA SET OPEN?               09290000
         BC    ALLOFF,READF200          NO-                             09300000
         SPACE 1                                                        09310000
         CLOSE ((R12))                  CLOSE IT                        09320000
         SPACE 1                                                        09330000
         LR    R1,R12                    COPY DCB ADDRESS               09340000
         SPACE 1                                                        09350000
         FREEPOOL (1)                    FREE QSAM BUFFERS              09360000
         SPACE 1                                                        09370000
         SLR   R0,R0                    SET LENGTH                      09380000
         B     READF300                                                 09390000
READSYN  DS    0H                                                       09400000
         SYNADAF ACSMETH=QSAM           REQUEST FORMATTED MESSAGE       09410000
         SPACE 1                                                        09420000
*        MVC   SYNADTXT,50(R1)          COPY MESSAGE TEXT               09430000
         SPACE 1                                                        09440000
*        COMMSGS TEXT=MSG230            NOTIFY OPERATOR                 09450000
         SPACE 1                                                        09460000
         SYNADRLS                       RELEASE BUFFERS                 09470000
         SPACE 1                                                        09480000
         OI    BEDFLAG1,PERMIERR        SET PERMANENT INPUT ERROR       09490000
         B     READCLS                  GO CLOSE IF NECESSARY           09500000
         SPACE 1                                                        09510000
*--------------------------------------------------------------------*  09520000
*        NORMAL RETURN                                               *  09530000
*--------------------------------------------------------------------*  09540000
         SPACE 1                                                        09550000
READF200 DS    0H                                                       09560000
         ST    R1,MOVESTAT+8            SAVE FOR SEGMENT ROUTINE        09570000
         ST    R0,MOVESTAT+12           SAVE   "                        09580000
READF300 DS    0H                                                       09590000
         LM    R14,R1,SAVEREGS          RESTORE REGISTERS               09600000
         BR    R5                                                       09610000
         SPACE 2                                                        09620000
*--------------------------------------------------------------*        09630000
*        FIND SEGMENT ROUTINE                                  *        09640000
*                                                              *        09650000
*        SUBROUTINE TO PROCESS THE HEADER RECORD AND PICK      *        09660000
*        OUT THE DATA ELEMENT AND SEGMENT SEPERATORS TO        *        09670000
*        DYNAMICALLY MAKE TO TRANSLATE TABLES.                 *        09680000
*                                                              *        09690000
*        INPUT  - R9  - RETURN ADDRESS                         *        09700000
*         MOVESTAT+ 0 - ADDRESS OF SEGMENT BUILD AREA          *        09710000
*         MOVESTAT+ 4 - LENGTH OF SEGMENT BUILD AREA           *        09720000
*         MOVESTAT+ 8 - ADDRESS OF ANSI/UNJEDI RECORD          *        09730000
*         MOVESTAT+12 - LENGTH OF ANSI/UNJEDI RECORD           *        09740000
*                                                              *        09750000
*--------------------------------------------------------------*        09760000
         SPACE 3                                                        09770000
FINDSGMT DS    0H                                                       09780000
         XC    MOVESTAT(8),MOVESTAT RESET STATS OF BUILD AREA           09790000
         LM    R14,R15,MOVESTAT+8 GET WHERE LEFT OFF IN RECORD          09800000
         LTR   R15,R15                  ANY BYTES LEFT TO PROCESS?      09810000
         BNP   FNDMSTRT                 NO-                             09820000
         BCTR  R15,0                    YES- GET EXECUTABLE LENGTH      09830000
         LA    R5,TABLE01               GET TABLE ADDRESS               09840000
         EX    R15,ENDALPHA             FIND SEGMENT ID                 09850000
```

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         BZ    FNDS0080            NOT FOUND                          09860000
         LA    R15,1(R15,R14)      POINT PAST LAST BYTE OF RECORD     09870000
         LR    R14,R1              COPY ADDRESS OF SEGMENT ID         09880000
         SR    R15,R14             GET LENGTH LEFT                    09890000
FNDS0070 DS    0H                                                     09900000
         STM   R14,R15,MOVESTAT+8  RESET STATS                        09910000
         B     FNDHSTRT            CONTINUE                           09920000
FNDS0080 DS    0H                                                     09930000
         LA    R15,0               SET ZERO BYTES LEFT OF THIS RECORD 09940000
         B     FNDS0070            CONTINUE                           09950000
FNDALPHA TRT   0(0,R14),0(R5)                                        09960000
FNDHSTRT DS    0H                                                     09970000
         ICM   R0,B'1111',MOVESTAT+12 FINISHED READING RECORD?        09980000
         BNZ   FNDS0090            NO-                              09990000
         SPACE 1                                                    10000000
         BAL   R5,READFILE         RETRIEVE NEXT INPUT RECORD       10010000
         TM    BEDFLAG1,INEOF      EOF REACHED?                     10020000
         BO    FNDH1300            YES-                             10030000
         SPACE 1                                                    10040000
         LM    R14,R15,MOVESTAT+8  GET RECORD ADDRESS/LENGTH        10050000
FNDS0090 DS    0H                                                   10060000
         ICM   R0,B'1111',MOVESTAT+4 FINISHED BUILDING RECORD?      10070000
         BNZ   FNDS0100            NO-                              10080000
         L     R1,BUFFER           NO- GET ADDRESS OF BUILD AREA    10090000
         ST    R1,MOVESTAT         SAVE IT                          10100000
         LA    R1,L'ERRBUFF        GET LENGTH OF BUILD AREA         10110000
         ST    R1,MOVESTAT+4       SAVE IT                          10120000
FNDS0100 DS    0H                                                   10130000
         CLC   SEP,0(R14)          NO- SEPARATOR?                   10140000
         BE    FNDH0900            YES-                             10150000
FNDS0500 DS    0H                                                   10160000
         LA    R14,1(R14)          NO- POINT TO NEXT BYTE           10170000
         BCT   R15,FNDS0100        PROCESS REST OF RECORD           10180000
FNDS0600 DS    0H                                                   10190000
         S     R1,MOVESTAT+12      UPDATE DISPLACEMENT OF SEPARATOR 10200000
         STH   R1,ELMTCTR          SAVE IT                          10210000
         LM    R14,R1,MOVESTAT     GET MOVE STATS                   10220000
         CR    R15,R1              RECV LGTH > SEND LGTH?           10230000
         BNH   FNDHERR             NO- ERROR                        10240000
         LR    R15,R1              SET RECV LGTH TO SEND LGTH       10250000
         MVCL  R14,R0              MOVE TO RECORD BUILD AREA        10260000
         L     R15,MOVESTAT+4      GET MAX LGTH OF BUILD AREA       10270000
         S     R15,MOVESTAT+12     MINUS ACTUAL BYTES MOVE          10280000
         STM   R14,R1,MOVESTAT     SAVE MOVE STAT                   10290000
         B     FNDHSTRT            GO READ ANOTHER RECORD           10300000
FNDH0900 DS    0H                                                   10310000
         S     R14,MOVESTAT+8      CALC LGTH OF REST OF SEGMENT     10320000
         LA    R1,1(R14)           ADD ONE FOR SEGMENT              10330000
         B     FNDH1000            GO MOVE TO BUILD AREA            10340000
FNDH1000 DS    0H                                                   10350000
         LM    R14,R0,MOVESTAT     SET UP FOR MOVE                  10360000
         CR    R15,R1              RECV LGTH > SEND LGTH?           10370000
         BH    FNDH1100            YES-                             10380000
         LR    R1,R15              NO- SET SEND LGTH TO RECV LGTH    10390000
         B     FNDH1200                                             10400000
FNDH1100 DS    0H                                                   10410000
         LR    R15,R1              SET RECV LGTH TO SEND LGTH       10420000
FNDH1200 DS    0H                                                   10430000
         LTR   R15,R15             LENGTH POSITIVE?                 10440000
         BNP   FNDH1400            NO-                              10450000
         CH    R15,=H'256'         YES- TOO BIG?                    10460000
         BH    FNDH1400            YES-                             10470000
         MVCL  R14,R0              MOVE TO RECORD BUILD AREA        10480000
         LR    R15,R0              GET ADDR PAST SEPERATOR          10490000
         S     R15,MOVESTAT+8      CALC BYTES MOVED                 10500000
         L     R1,MOVESTAT+12      GET TOTAL BYTES IN RECORD        10510000
         SR    R1,R15              CALC RESIDUAL BYTE COUNT         10520000
         STM   R0,R1,MOVESTAT+8    SAVE FOR LATER                   10530000
         L     R15,BUFFER          GET BEGINNING OF RECORD          10540000
         SR    R14,R15             CALC LENGTH OF RECORD            10550000
         LA    R14,4(R14)          ADD LENGTH OF RDW                10560000
         L     R15,BUFFRDW         GET ADDRESS OF RDW               10570000
         STCM  R14,B'0011',0(R15)  SET RDW                          10580000
         B     FNDHNORM            RETURN                           10590000
FNDH1300 DS    0H                                                   10600000
         CLC   MOVESTAT+4(4),BEDZERO STILL BUILDING A SEGMENT?      10610000
         BE    FNDHEOF             NO-                              10620000
         B     FNDHERR             YES- END OF SEGMENT MISSING      10630000
FNDH1400 DS    0H                                                   10640000
         STM   R14,R1,MOVESTAT     SAVE REGISTERS                   10650000
         ABEND 8,DUMP                                               10660000
         SPACE 1                                                    10670000
*--------------------------------------------------------------------* 10680000
*        +0    ERROR RETURN                                        * 10690000
*--------------------------------------------------------------------* 10700000
         SPACE 1                                                    10710000
FNDHERR  DS    0H                                                   10720000
         B     0(R9)                                                10730000
         SPACE 1                                                    10740000
*--------------------------------------------------------------------* 10750000
*        +4    EOF RETURN                                          * 10760000
*--------------------------------------------------------------------* 10770000
         SPACE 1                                                    10780000
FNDHEOF  DS    0H                                                   10790000
         B     4(R9)                                                10800000
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         SPACE 1                                                        10810000
*--------------------------------------------------------------------*  10820000
*        +8     NORMAL RETURN                                       *  10830000
*--------------------------------------------------------------------*  10840000
         SPACE 1                                                        10850000
FNDHNORM DS     0H                                                     10860000
         B      8(R9)                                                  10870000
         SPACE 1                                                        10880000
TABLE01  SCNTBL CHARSET=ALPHA,FUNC=LOCATE                               10890000
         SPACE 1                                                        10900000
TBABEND  DS     0H                                                     10910000
         PUSH   USING                                                  10920000
         DROP                                                          10930000
         USING  *,R15                                                  10940000
         CH     R0,=H'12'               SDWA PRESENT?                  10950000
         BNE    AAABEND1                YES-                           10960000
*        RETURN TO RTM, ATTEMPTING RECOVERY:                           10970000
         SPACE 1                                                        10980000
         LA     R0,AAABEND2             POINT TO REINSTATEMENT ROUTINE 10990000
         LA     R15,4                   INDICATE TASK IS TO BE REINSTATED 11000000
         BR     R14                     RETURN TO RTM                  11010000
         SPACE 1                                                        11020000
AAABEND1 DS     0H                                                     11030000
         STM    R14,R12,12(R13)         SAVE REGS                      11040000
         LR     R10,R15                 SET BASE                       11050000
         USING  TBABEND,R10                                            11060000
         DROP   R15                                                    11070000
         LR     R4,R1                   SDWA ADR                       11080000
         USING  SDWA,R4                                                11090000
         L      R2,SDWAPARM             GET BASE REGISTER              11100000
         USING  EDITSBED,R2             GET ADDRESSABILITY             11110000
         LA     R3,2048(,R2)            SET 2ND BASE REG               11120000
         LA     R3,2048(,R3)                                           11130000
         USING  EDITSBED+4096,R3                                       11140000
         ICM    R1,B'0111',SDWACMPC     GET COMPLETION CODE            11150000
         DROP   R4                                                     11160000
         SRL    R1,12                                                  11170000
         N      R1,=X'00000FFF'                                        11180000
         ST     R1,RTNCODE               SAVE IT                       11190000
         SPACE 1                                                       11200000
         SETRP  REGS=(14,12),                                         +11210000
                RC=4,RETADDR=AAABEND2,FRESDWA=YES,WKAREA=(4)           11220000
         SPACE 1                                                       11230000
         POP    USING                                                  11240000
         SPACE 2                                                       11250000
AAABEND2 DS     0H                                                     11260000
         LR     R10,R1                   SET BASE REGISTER             11270000
         LA     R11,2048(,R10)           SET 2ND BASE REG              11280000
         LA     R11,2048(,R11)                                         11290000
         L      R2,=A(ERROR12)           POINT TO RESTART ADDRESS      11300000
         BR     R2                       GO TO IT                      11310000
         SPACE 1                                                       11320000
         LTORG                                                         11330000
         EJECT                                                         11340000
*--------------------------------------------------------------------*  11350000
*        MISC DATA AREA                                              *  11360000
*--------------------------------------------------------------------*  11370000
         SPACE 1                                                       11380000
ZUSER    DC     CL8' '                                                 11390000
XLATOR   DC     A(0)                                                   11400000
SAVEAREA DC     18F'0'                                                 11410000
SAVEREGS DC     18F'0'                                                 11420000
DBLWORD  DC     D'0'                                                   11430000
BUFFROW  DC     A(ERRROW)               POINT TO ROW                   11440000
BUFFER   DC     A(ERRBUFF)              POINTER TO ERROR BUFFER        11450000
MSGID    DC     CL8' '                  MESSAGE ID                     11460000
DCBNAMES DC     AL2(L'IDCB+L'ODCB+L'EDCB)  LENGTH OF DDNAMES           11470000
IDCB     DC     CL8' '                  INPUT DCB FOR REBLOCK          11480000
ODCB     DC     CL8' '                  OUTPUT DCB FOR REBLOCK         11490000
EDCB     DC     CL8'REBLKERR'           SYSPRINT DCB FOR REBLOCK       11500000
ISPLADDR DC     A(0)                                                   11510000
TEMPDSN  DC     C' '                                                   11520000
IDSN     DC     CL44' '                                                11530000
MOVESTAT DC     4F'0'                                                  11540000
BEDZERO  DC     D'0'                    CONSTANT ZEROS                 11550000
BEDBLANK DC     CL8' '                  CONSTANT BLANK                 11560000
ELMTCTR  DC     H'0'                                                   11570000
BEDFLAG1 DC     X'00'                                                  11580000
INEOF    EQU    X'80'                   END OF FILE                    11590000
PERMIERR EQU    X'40'                   ERROR READING INPUT FILE       11600000
SEP      DC     X'00'                   SEGMENT SEPARATOR              11610000
FLAG1    DC     X'00'                   MISC FLAG                      11620000
INIT     EQU    X'80'                   INITIALIZING                   11630000
         SPACE 1                                                       11640000
*--------------------------------------------------------------------*  11650000
*        DYNAMIC ALLOCATION CONTROL BLOCKS                           *  11660000
*--------------------------------------------------------------------*  11670000
         SPACE 1                                                       11680000
DYNRBP   DC     0F'0',X'80',AL3(DYNRB)                                 11690000
DYNRB    DC     XL(S99RBEND-S99RB)'00'                                 11700000
         ORG    DYNRB+S99RBLN-S99RB                                    11710000
         DC     AL1(S99RBEND-S99RB)                                    11720000
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          ORG   DYNRB+S99VERB-S99RB                                    11730000
          DC    AL1(S99VRBAL)                                          11740000
          ORG   DYNRB+S99FLAG1-S99RB                                   11750000
          DC    AL1(S99NOCNV)                                          11760000
          ORG                                                          11770000
SOALLOC   DC    A(TXTDD),AL1(128),AL3(TXTSO)                           11780000
DSCONCLS  DC    AL1(128),AL3(TXTCONC)                                  11790000
DSALLOCS  DC    A(TXTDD,TXTDSN),AL1(128),AL3(TXTSHR)                   11800000
DSALLOCO  DC    A(TXTDD,TXTDSN),AL1(128),AL3(TXTOLD)                   11810000
DSUNALOC  DC    AL1(128),AL3(TXTDD)                                    11820000
DSUNCONC  DC    AL1(128),AL3(TXTDDU)                                   11830000
DSALLOCN  DC    A(TXTDD)                                               11840000
          DC    A(TXTDSN)                                              11850000
          DC    A(TXTNEW)                                              11860000
          DC    A(TXTNDISP)                                            11870000
          DC    A(TXTCDISP)                                            11880000
          DC    A(TXTUNITX)                                            11890000
          DC    A(TXTTRK)                                              11900000
          DC    A(TXTPRIME)                                            11910000
          DC    A(TXTSECND)                                            11920000
          DC    A(TXTRECFM)                                            11930000
          DC    A(TXTLRECL)                                            11940000
          DC    AL1(128),AL3(TXTBLKSZ)                                 11950000
TXTCONC   DC    AL2(DCCDDNAM,2,8),CL8' ',AL2(8)                        11960000
TXTCONCX  DC    CL8' '                                                 11970000
TXTTRK    DC    AL2(DALTRK,0)                                          11980000
TXTNEW    DC    AL2(DALSTATS,1,1),X'04'                                11990000
TXTNDISP  DC    AL2(DALNDISP,1,1),X'02'                                12000000
TXTCDISP  DC    AL2(DALCDISP,1,1),X'04'                                12010000
TXTRECFM  DC    AL2(DALRECFM,1,1),X'40'                                12020000
TXTLRECL  DC    AL2(DALLRECL,1,2),X'0202'                              12030000
TXTBLKSZ  DC    AL2(DALBLKSZ,1,2),X'3C40'                              12040000
TXTPRIME  DC    AL2(DALPRIME,1,3),X'000096'                            12050000
TXTSECND  DC    AL2(DALSECND,1,3),X'000000'                            12060000
TXTUNITX  DC    AL2(DALUNIT,1,5),CL5'SPACE'                            12070000
TXTOLD    DC    AL2(DALSTATS,1,1),X'01'                                12080000
TXTDD     DC    AL2(DALDDNAM,1,8),CL8' '                               12090000
TXTDDU    DC    AL2(DDCDDNAM,1,8),CL8' '                               12100000
TXTDSN    DC    AL2(DALDSNAM,1,44),CL44' '                             12110000
TXTSO     DC    AL2(DALSYSOU,1,1),C'W'                                 12120000
TXTSHR    DC    AL2(DALSTATS,1,1),X'08'                                12130000
          SPACE 1                                                      12140000
*---------------------------------------------------------------------* 12150000
*         SYSOUT DDNAME LIST                                          * 12160000
*---------------------------------------------------------------------* 12170000
          SPACE 1                                                      12180000
SOLIST    DC    CL8'MONITOR'                                           12190000
          DC    CL8'MYOUT'                                             12200000
          DC    CL8'REPORT'                                            12210000
          DC    CL8'SYSOUT'                                            12220000
          DC    CL8'MPT'                                               12230000
          DC    CL8'SBG'                                               12240000
          DC    CL8'EEO'                                               12250000
          DC    CL8'JSP'                                               12260000
          DC    CL8'REBLKERR'                                          12270000
          DC    CL8' '                                                 12280000
          SPACE 1                                                      12290000
*---------------------------------------------------------------------* 12300000
*         DDNAME-DSNAME LIST FOR DISP=SHR                             * 12310000
*---------------------------------------------------------------------* 12320000
          SPACE 1                                                      12330000
DSLIST    DC    CL8'ANSI'                                              12340000
DSNAT     DC    CL44' '                                                12350000
          DC    CL8'ANSIP'                                             12360000
DSNAP     DC    CL44' '                                                12370000
          DC    CL8'APPLOUT'                                           12380000
DSNXP     DC    CL44' '                                                12390000
          DC    CL8'APPLOUTX'                                          12400000
DSNXT     DC    CL44' '                                                12410000
          DC    CL8'CNT'                                               12420000
DSNCT     DC    CL44' '                                                12430000
          DC    CL8'CNTP'                                              12440000
DSNCP     DC    CL44' '                                                12450000
          DC    CL8'IDS'                                               12460000
DSNIT     DC    CL44' '                                                12470000
          DC    CL8'IDSP'                                              12480000
DSNIP     DC    CL44' '                                                12490000
          DC    CL8'COND'                                              12500000
DSNOT     DC    CL44' '                                                12510000
          DC    CL8'CONDX'                                             12520000
DSNOP     DC    CL44' '                                                12530000
          DC    CL8'VSAM',CL44'VAAEX.EDIS.D.TEST.RECOVERY'             12540000
          DC    CL8' '                                                 12550000
          SPACE 1                                                      12560000
*---------------------------------------------------------------------* 12570000
*         DDNAME-ALLOC LIST FOR DISP=SHR                              * 12580000
*---------------------------------------------------------------------* 12590000
          SPACE 1                                                      12600000
DSLISTS   DC    CL8'SONLG',X'90',X'0050',X'1810',X'000005'             12610000
          DC    CL8' '                                                 12620000
          SPACE 1                                                      12630000
*---------------------------------------------------------------------* 12640000
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*        DDNAME-ALLOC LIST FOR DISP=OLD                                *
*--------------------------------------------------------------------*
         SPACE 1
DSLISTO  DC    CL8'FAOUT',X'50',X'0800',X'5004',X'000032'
         DC    CL8'OUTPUT',X'50',X'0800',X'5004',X'000064'
         DC    CL8'TESTBED2',X'50',X'0C37',X'61BC',X'000005'
         DC    CL8'TESTBED',X'50',X'0800',X'5004',X'000001'
         DC    CL8'REJECT',X'50',X'0804',X'5028',X'000028'
         DC    CL8'RECOV',X'50',X'0804',X'5028',X'000028'
         DC    CL8'STORE',X'90',X'0050',X'1810',X'000010'
         DC    CL8' '
         SPACE 1
*--------------------------------------------------------------------*
*        DEFINITION OF PROGRAM STORAGE FOR PANEL VARIABLES           *
*--------------------------------------------------------------------*
         SPACE 1
DSN      DC    CL44' '
DSNW     DC    CL44' '
DSNS     DC    CL44' '
DSNL     DC    CL44' '
STD      DC    CL8' '
RLS      DC    CL5' '
VERS     DC    CL12' '
AGCY     DC    CL2' '
REAS     DC    CL71' '
LASTSEG  DC    CL6' '
NUMB     DC    CL6' '
TRANDATA EQU   STD,*-STD,C'C'
         DS    0F
RTNCODE  DC    CL4' '
REEZCODE DC    CL2' '
DDERR    DC    CL8' '
         SPACE 1
*--------------------------------------------------------------------*
*        DEFINITION OF ISPF SERVICE REQUESTS                         *
*--------------------------------------------------------------------*
         SPACE 1
DISPLAY  DC    CL8'DISPLAY'
EDIT     DC    CL8'EDIT'
PRIMARY  DC    CL8'EDITB'
PANEL2   DC    CL8'EDITB1'
PANEL3   DC    CL8'EDITB2'
CONTROL  DC    C'CONTROL'
SELECT   DC    C'SELECT'
ERRORS   DC    C'ERRORS'
RETURN   DC    C'RETURN'
VDEFINE  DC    CL8'VDEFINE'
VGET     DC    CL8'VGET'
VPUT     DC    CL8'VPUT'
PROFILE  DC    CL8'PROFILE'
SHARED   DC    CL8'SHARED'
CHAR     DC    CL8'CHAR'
HEX      DC    CL8'HEX'
TBCREATE DC    CL8'TBCREATE'
TBDISPL  DC    CL8'TBDISPL'
TBADD    DC    CL8'TBADD'
TBTOP    DC    CL8'TBTOP'
TBSARG   DC    CL8'TBSARG'
TBCLOSE  DC    CL8'TBCLOSE'
LOG      DC    CL8'LOG'
SETMSG   DC    CL8'SETMSG'
VARTABLE DC    CL8'VARTABLE'
NOWRITE  DC    CL8'NOWRITE'
VARLIST  DC    C'(TBNUMB TBREAS)'
SAVLIST  DC    C'(TBDSN TBDSNW TBDSNS TBDSNAT TBDSNAP TBDSNCT TBDSNCP TBDSNIT TBDSNIP TBDSNXT TBDSNXP TBDSNOT TBDSNOP TBDSNL)'
USERLIST DC    C'(ZUSER)'
         SPACE 1
*--------------------------------------------------------------------*
*        DEFINITION OF LENGTH OF PANEL VARIABLES                     *
*--------------------------------------------------------------------*
         SPACE 1
LENGTH2  DC    F'2'
LENGTH4  DC    F'4'
LENGTH5  DC    F'5'
LENGTH6  DC    F'6'
LENGTH8  DC    F'8'
LENGTH11 DC    F'11'
LENGTH12 DC    F'12'
LENGTH44 DC    F'44'
LENGTH71 DC    F'71'
         SPACE 1
*--------------------------------------------------------------------*
*        DEFINITION OF PANEL VARIABLES                               *
*--------------------------------------------------------------------*
         SPACE 1
SELCMD   DC    C'CMD(%EDITB)'
ZUSERLIT DC    C'(ZUSER)'
DSNLIT   DC    C'(TBDSN)'
DSNWLIT  DC    C'(TBDSNW)'
DSNSLIT  DC    C'(TBDSNS)'
DSNLLIT  DC    C'(TBDSNL)'
DSNALITT DC    C'(TBDSNAT)'
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DSNALITP DC    C'(TBDSNAP)'                                          13580000
DSNCLITT DC    C'(TBDSNCT)'                                          13590000
DSNCLITP DC    C'(TBDSNCP)'                                          13600000
DSNILITT DC    C'(TBDSNIT)'                                          13610000
DSNILITP DC    C'(TBDSNIP)'                                          13620000
DSNXLITT DC    C'(TBDSNXT)'                                          13630000
DSNXLITP DC    C'(TBDSNXP)'                                          13640000
DSNOLITT DC    C'(TBDSNOT)'                                          13650000
DSNOLITP DC    C'(TBDSNOP)'                                          13660000
STDLIT   DC    C'(TBSTD)'                                            13670000
RLSLIT   DC    C'(TBRLS)'                                            13680000
VERSLIT  DC    C'(TBVER)'                                            13690000
AGCYLIT  DC    C'(TA)'                                               13700000
REASLIT  DC    C'(TBREAS)'                                           13710000
NUMBLIT  DC    C'(TBNUMB)'                                           13720000
LASTLIT  DC    C'(TLASTS)'                                           13730000
RTC      DC    C'(RTC)'                                              13740000
REEZ     DC    C'(REEZ)'                                             13750000
DD       DC    C'(DD)'                                               13760000
         SPACE 1                                                     13770000
*--------------------------------------------------------------------* 13780000
*        DCB'S                                                       * 13790000
*--------------------------------------------------------------------* 13800000
         SPACE 1                                                     13810000
ERRDCB   DCB   DDNAME=TESTBED2,DSORG=PS,MACRF=GM                     13820000
         SPACE 1                                                     13830000
INPDCB   DCB   DDNAME=INPUT,DSORG=PS,MACRF=GL                        13840000
         SPACE 1                                                     13850000
OUTDCB   DCB   DDNAME=SGMTFILE,DSORG=PS,MACRF=PM                     13860000
         SPACE 1                                                     13870000
STOREDCB DCB   DDNAME=STORE,DSORG=PS,MACRF=PM                        13880000
         SPACE 1                                                     13890000
LOGDCB   DCB   DDNAME=LOG,DSORG=PS,MACRF=PM                          13900000
         SPACE 1                                                     13910000
OUTDCBX  DCB   DDNAME=SGMTFILE,DSORG=PS,MACRF=GL                     13920000
         SPACE 1                                                     13930000
         LTORG                                                       13940000
         SPACE 1                                                     13950000
ERRRDW   DC    AL2(*-*,0)                                            13960000
ERRBUFF  DS    XL3123            ERROR BUFFER RECORD                 13970000
BDMODNUM DC    CL8'MD00049'      EDI MOD NUMBER                      99999996
         END                                                         99999999
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What is claimed is:

1. A method for interactively translating electronic data interchange files, comprising the steps of:

(a) generating a plurality of displays for interactively controlling the translation of an electronic data interchange file;

(b) translating said electronic data interchange file until a translation error exists;

(c) displaying said translation error on at least one of said plurality of displays so that said translation error may be corrected interactively;

(d) correcting said displayed translation error in response to data entered on said at least one of said plurality of displays; and

(e) repeating steps (a) through (d) until no translation error exists.

2. The method of claim 1, wherein said electronic data interchange file comprises transaction data to be communicated from a sending computer to a receiving computer and said translating step occurs after communicating said electronic data interchange file to said receiving computer.

3. The method of claim 2, wherein said correcting step further comprises the steps of:

forming a segment file for containing a portion of said electronic data interchange file where said portion includes said translation error;

placing said portion of said electronic data interchange file into said segment file;

displaying said portion on said at least one of said plurality of displays for correcting said translation error; and

forming a working file comprising all correctly translated portions of said electronic data interchange file.

4. The method of claim 2, wherein said displaying and correcting steps occur interactively without the need to retranslate all previously translated portions of said electronic data interchange file.

5. The method of claim 1, further comprising the step of logging each of said translation error occurring during the translation of said electronic data interchange file.

6. The method of claim 1, further comprising the step of forming a working file of all correctly translated portions of said electronic data interchange file.

7. A programmable machine system for interactively translating business transaction data between a plurality of different dictionary-structured transaction formats, said machine system including a plurality of system components, said machine system comprising:

output circuitry for generating a plurality of visible signals corresponding to the status of translation of said business transaction data from one format to another predetermined format;

translation circuitry for translating said business transaction data into said predetermined format;

error detection and reporting circuitry for detecting the existence of a translation error and communicating said translation error to said output circuitry;

editing circuitry for interactively receiving corrections to said business transaction data and for modifying said business transaction data in response to said corrections generating corrected business transaction data; and

said translation circuitry translating said corrected business transaction data.

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